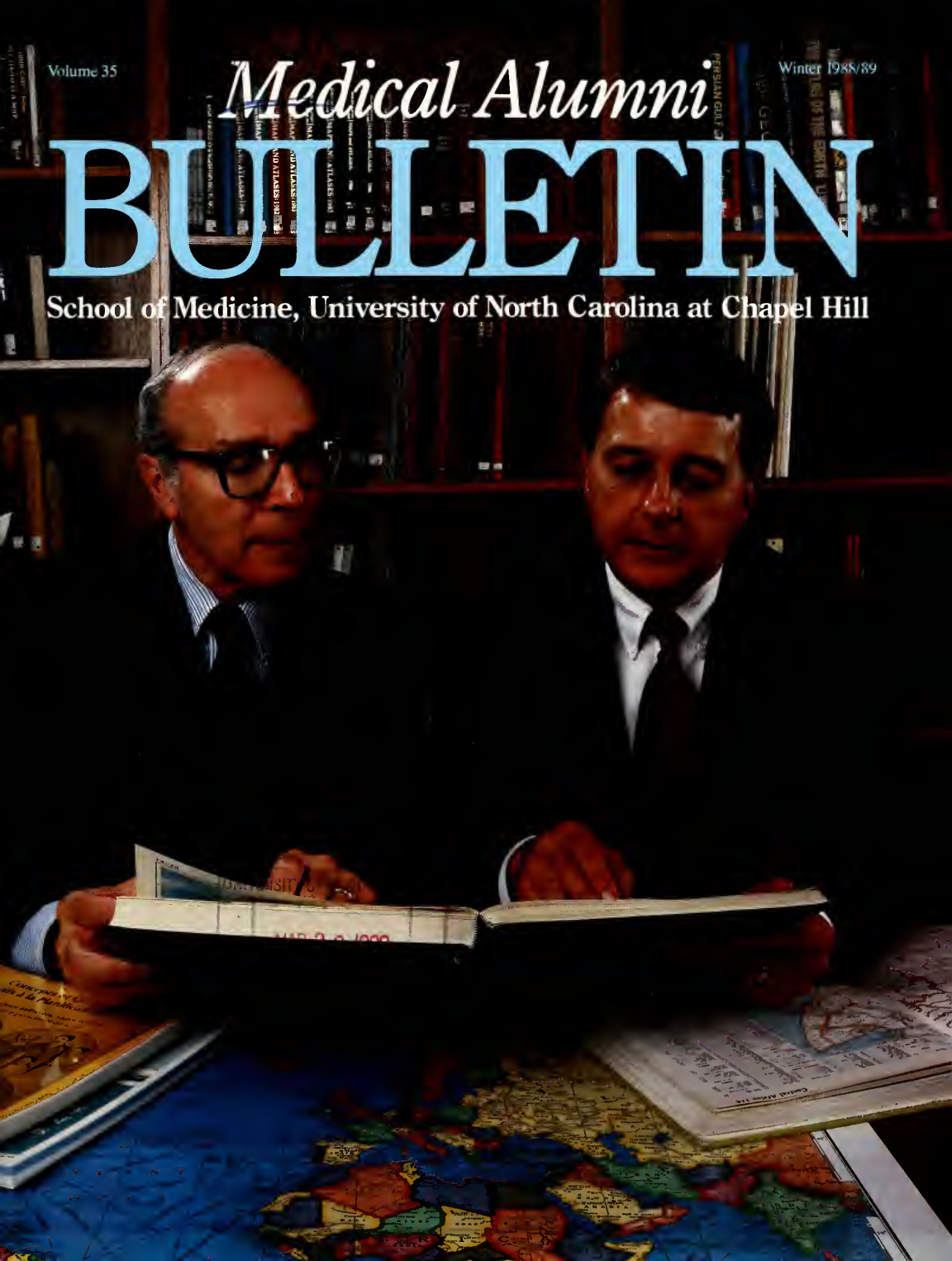
Volume 35

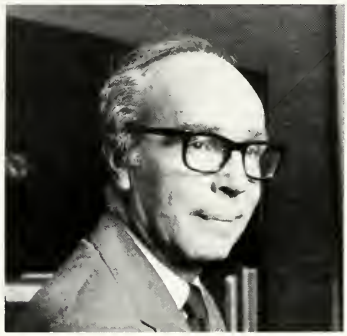
Medical Alumni BULLETIN

Winter 1988/89

School of Medicine, University of North Carolina at Chapel Hill



Dean's Page



About a year ago, Secretary of Health and Human Services Dr. Otis Bowen, stimulated by broad concern for the shortage of nurses, appointed a commission to analyze the causes of the shortage and to recommend means of addressing it. Through my service on the Commission, I have heard a good bit about nurses and nursing, about physicians and doctoring, and about health care institutions. I also had some observations about human nature confirmed. The Commission published an interim report of its findings in July 1988. While the final report, released in December 1988, does contain a useful set of recommendations, I doubt that it alone will lead to correction of the shortage. At best it may set in motion a process for addressing the problem more efficiently over time.

Without in any way usurping the report, I want to share a few observations and lessons I have gleaned from the experience. I became more intimately acquainted with some basic facts: Not everyone agrees that a nursing shortage exists, in part because not everyone agrees on how to define the term (or concept) of shortage or sufficiency. One might think it would be a simple matter to determine the aggregate need for nurses, but just as it is no simple matter to determine the aggregate need for physicians, so it is with nurses. Projections of the optimum nursing work force vary considerably depending on many assumptions (aging population, nurse staffing ratios in nursing homes, and intensity of nursing in acute care hospitals, to name a few). Projections also depend on whether one thinks in terms of need for more nurses, demand (jobs available), or requirements—three quite different concepts used for projecting the optimum work force. The Commission and most (but not all) observers concluded that there is, in fact, a large shortage of nurses, with severe consequences for health care and for the nursing profession.

My own impression is that there has been a low-grade nursing shortage most of the time since World War II, and that the shortage has been greatly intensified by a number of developments in the 1980s.

The shortage is not due to a reduced supply of nurses. Indeed, the nursing work force has doubled in the last decade and the number of nurses will continue to increase at least until the year 2010. The shortage is also not due to nurses dropping out of the work force. Eighty percent of all nurses qualified to work are working. This is a higher percentage than for teachers or other professional groups. This shortage is not linked to a reduced supply. Rather, the growth in the demand for nurses has greatly exceeded growth in the supply of nurses.

It is unlikely that the current rate of growth in the supply of nurses will be sustained, because the interest in nursing schools and in nursing careers has declined sharply. Absent some change, the shortage will grow much worse, in my judgment.

Nurses are used by many hospitals very efficiently from the perspective of cost, but very inefficiently from the perspective of patient care. Nursing salaries are so low that some hospitals can and do economize by taking advantage of the versatility and dedication of nurses to add non-nursing tasks to their work and by failing to staff adequately to provide working conditions comparable to those of other service professions which provide appropriate recognition of nurses' special training and competence. Nor have they been successful in creating reasonable career ladders or arrangements for retirement.

There is urgent need, I think, to address all the foregoing issues.

But it is also urgent that physicians and medical societies help improve the attractiveness of a career in nursing by continuing to work to replace the adversarial stance between doctors and nurses with a stance of mutual accommodation and respect based on patient welfare. For decades now, medical schools have understated the value of nursing in their teaching, and some nursing schools have, in my judgment, understated the potential scope and power of scientific medicine and of the art of medicine.

But even if there existed the most harmonious relations between physicians and nurses, and even if all aspects of the working conditions of nurses were perfected within the limits of economic constraints, I expect there will remain a shortage of nurses as long as we attempt to fill the need by recruiting only young women to nursing.

In my judgment, the nursing profession should strongly support the entry of other potential groups into the profession as LPNs and as other nursing support disciplines in addition to recruiting intensively for entry into the baccalaureate RN pathway. The nursing profession should take the initiative in opening itself to career pathways in addition to the baccalaureate RN. While repairing the failings in the working conditions of nurses, rational programs of recruitment should aim at males, individuals seeking second careers (retirees), minorities, and others not now involved.

Stuart Bondurant

Stuart Bondurant, Dean

Medical Alumni BULLETIN

School of Medicine, University of North Carolina at Chapel Hill

Advisory Board

Nancy C. Chescheir, M.D. '82
Gerald W. Fernald, M.D. '60
Donald C. Fidler, M.D. '75
Daniel Gottovi, M.D. '71 (HS), *ex officio*
George Johnson, Jr., M.D. '50
Janice C. Keene, M.D.
Kenneth J. Levin, M.D.
Noel B. McDevitt, M.D. '64, *ex officio*
William S. Pollitzer, M.D.
Joseph D. Russell, M.D. '69, *ex officio*
John W. Stokes, *ex officio*
William B. Wood, M.D., '46, *ex officio*

Editor

Joni P. Porter

John W. Stokes, *Director, Institutional Relations*

The Medical Alumni Bulletin is published four times annually by the University of North Carolina at Chapel Hill Medical Alumni Association, Chapel Hill, NC 27514. Postage is paid by the non-profit association through U.S. Postal Permit No. 24. Address correspondence to the editor at North Carolina Memorial Hospital, Room 6019 PST, CB #7600, Chapel Hill, NC 27514.

Contents

Features

INTRAH Program Seeks "Grass Roots" Solution for Health Care Concerns 2

Studies at Research Center Help Scientists Unravel Mysteries of Alcoholism 4

Telephone Assuming Powerful New Role In Modern Medicine 6

Singing the Praises of Barbershop Harmony 8

Carolina Consultation Center Pullout

Departments

Dean's Page . . . . . Inside Front Cover

Faculty Notes 10

News Briefs 13

Class Notes 16

On the Cover

James W. Lea, Ph.D. (right), director of the University's Office of International Affairs, explores almanacs with Medical School Dean Stuart Bondurant. A story detailing the medical school's considerable international involvements begins on page 2 of this issue of the *Bulletin*.

INTRAH Program Seeks 'Grass-Roots' Solution for Health Care Concerns

By Val Lauder

It used to be said that the sun never set on the British Empire. Today that might be said of the School of Medicine.

UNC-CH faculty, medical students, graduate students and researchers may be found around the world—presenting papers, serving as visiting professors, doing research, acting as consultants in Paris, London, Lausanne, Munich, Amsterdam, Edinburgh, Hamburg, Rome and Cairo; and, in Turkey, China, India, Hungary, Australia, Ecuador, the Philippines, Mexico and Venezuela.

On any given morning the sun rises on some 40-plus School of Medicine activities in Africa alone.

"There are just all kinds of people doing all kinds of things of great interest," says James W. Lea, Ph.D., director of UNC's Office of International Affairs. "Many of those activities are of great value in a large, generic sense and of particular importance to the mission of the medical school and the university."

These programs provide invaluable opportunities for research and training. "We're talking about a quantum expansion of the laboratory," Lea says. "It's really quite something in terms of access, giving our faculty, our graduate students and others in this university access to service and research opportunities that we just don't get in Chapel Hill."

One of the most important and one of the most extensive of these programs is the INTRAH (International Training in Health) program in Africa and Asia.

Two years ago Frank Loda, M.D., chief of community pediatrics, spent a year in Nairobi, Kenya, doing research and providing assistance to the University of Nairobi medical faculty. Next year, Alan Cross, M.D., pediatrics, will do the same thing. And, Floyd Denny, M.D., former chair of pediatrics, has been to Nairobi several times on short-term visits as part of a research project. A number of medical students have embarked on shorter journeys.

> "(Medicine) is no longer an insular profession where you can wrap yourself up in the medical center and...not ever feel or see the effects of health care on the far side of the world."
>
> James W. Lea, Ph.D

"We have particularly good relationships with the University of Nairobi for historical reasons," Lea says. "INTRAH has good relationships with the government of Kenya and with the University of Nairobi because we do have a regional office in Nairobi."

INTRAH also has a regional office on the opposite, west side of Africa at Abidjan on the Ivory Coast, which is home base for several projects.

"We are supporting these activities either technically, by professional contact and consultation; financially, using some Federal government funds made available to us under this contract; or materially, by sending textbooks or training material," Lea says.

Principally concerned with improving service-provider skills in nursing, family planning, medicine, and, in some cases, paraprofessional health care delivery, INTRAH currently supports 22 training projects, including two projects in Zaire—one with a government agency, the other with a non-government agency.

Lea says, "In both cases, our input is to help them improve their own ability to train Zaireans as family planning and health care providers and evaluators of health care programs. We're providing technical assistance to the local agencies to strengthen their own institutional capabilities. Seldom do we get ourselves involved in extensive, direct training of health care providers."

The Kenyan Ministry of Health invited INTRAH to join them in looking at the management of maternal-child health services, specifically, how well individual, government-sponsored clinics around the country were managed.

"They perceived this as a problem. There were trained people there. The need for services was very clear. By and large the equipment and supplies were on hand. But the satisfaction of the people who used the clinics, the cost efficiency of clinic operations, and so forth, really were not satisfactory," says Lea.

KEY: Established Projects | Projects Under Development | Responsive Technical Assistance | Other Assistance

"A joint examination (and we work jointly with our hosts in every case) showed that, in fact, a program to improve the management capability of the clinic directors and community nurses would be a great help. So we developed such a plan together," said Lea.

We trained a small core group of Kenyan nurses as management trainers. They have subsequently conducted a series of training activities all around the country, to which the clinic directors come to receive management training. They go back to their clinics and then have follow-up assistance from their fellow Kenyans, the ones who trained them, to be sure that new management practices are instituted.

"We have followed up twice with joint teams of Kenyans and Americans to try to document the effectiveness of this. And it's been a very favorable outcome in both cases."

Lea points out that such a project is not like "the great silver bullet, finding out what causes malaria and how to treat it.

"However, it's one of those little interventions, right down at the grass roots of the health care system, that is going to make it possible for that health care system to operate more effectively, more efficiently—to reach people; and to do so in a way that costs the government of Kenya less money per capita to provide good quality health services."

The UNC team also has learned important lessons about how to evaluate a health care system and to set up management training programs.

Lea notes that there's a growing realization, among medical students, in particular, that today you can no longer practice medicine "without knowing how medicine is practiced and health care is delivered everywhere. This is no longer an insular profession where you can wrap yourself up in the medical center and stay in your lab all day—or even where you can go out in your group practice or your private clinic in Tarboro, and stay there all day—and not ever feel or see the effects of health care on the far side of the world."

AIDS is a good example, but not the only one.

"We noticed about ten years ago that the incidence of malaria in North Carolina was increasing. Where did that come from? Of course, it came from people bringing it home. People travel."

International programs are therefore much more than simply social conscience. "This is nitty-gritty stuff," Lea says.

It's not surprising that INTRAH's scope has expanded steadily since its founding in 1979, following a proposal to the Agency for International Development. Today some 30 professionals and part-time support people staff the Chapel Hill office.

In 1985 a new program was undertaken with the Institute for Maternal Child Health in Manila. This is a relatively small private organization that operates a network of maternal-child health clinics and a training program throughout the Philippine Islands. The Institute has become so well recognized that it draws students from such countries as Thailand, Uganda and Nigeria.

Sri Lanka is the site of another recent project. The Family Planning Association there asked for assistance in training community workers—village volunteers, they call them—to be better providers of non-clinical family planning services. Since 1985 they have trained 15,000 such volunteers.

"They have evaluated and monitored not only their training but their activity and performance later. It's a great success," says Lea.

Sometimes unexpected problems arise.

"We've been active in Chad the last two years," says Lea. "We were invited to help provide maternal-child health training assistance to the Ministry of Public Health. That's what we've been trying to do, but it can be a very frustrating thing."

Chad is in the throes of a civil war. "You're working in a country where your staff and consultants can't leave because the airport was just bombed, so it'll have to be closed for a couple of weeks until they fill up the holes."

Challenges like this are part of the bigger picture. Lea explains, "It's one of the things—when it's possible to work with dedicated colleagues here and abroad to accomplish something worthwhile—that makes you feel good. You feel it was worth getting up this morning."

Studies at Research Center Help Scientists Unravel Mysteries of Alcoholism

Researchers at the University of North Carolina Center for Alcohol Studies are exploring the possibility that serotonin, a natural substance found in milk and meat, may have promise in regulating compulsive drinking. They are also investigating acetylcholine, a chemical linked to bad moods and stress, and the role it plays in causing people to drink. UNC researchers are also working to develop alcohol intoxication antagonists, including the heart medication, verapamil, and the brain chemical, thyroid releasing hormone. These chemicals may help turn off the effects of alcohol intoxication.

This work, plus a series of genetic research efforts related to alcoholism, and plans for expansion of the Center are discussed in the accompanying article by David S. Janowsky, M.D., chair of the Department of Psychiatry and director of the Center for Alcohol Studies.

By David S. Janowsky, M.D., Director UNC Center for Alcohol Studies

Alcoholism is the most wide-spread and costly drug-caused disease found in our society, leading to a wide range of medical and socio-economic problems which erode our nation's health and productivity. For example, consider the following facts provided by the National Institute on Alcohol Abuse and Alcoholism:

—There are as many as 15 million alcoholics in this country.

—Alcohol intoxication causes or contributes to up to 64% of fatal traffic accidents, 68% of drownings, 26% of adult fire deaths, 45% of deaths from falls and 37% of suicides.

—Alcohol abuse and alcoholism is the third leading cause of death in America, with estimates of deaths related to alcohol abuse ranging from 50,000 to 200,000 per year.

—Alcohol abuse during pregnancy can lead to physical malformations and mental complications in the babies of alcohol abusing women.

The economic costs of alcohol abuse and alcoholism are currently estimated to be approximately $60 billion per year. As impressive as this figure is, it does not begin to measure the emotional costs caused by broken homes, disrupted childhoods, spouse and child abuse, sexual dysfunction, violent acts and criminal activities that result, at least in part, from alcohol.

The causes of alcoholism and alcohol abuse are almost certainly multiple and complex. Genetic, biochemical, psychologic and societal causes have been proposed, but the role of each of these possibilities needs definition and exploration. Until these causes are thoroughly identified and understood, no truly effective treatment and prevention measures will be available; and the costs to society will continue to escalate.

It is encouraging that, as part of a national focus, biochemically related advances, originated by scientists at the Center for Alcohol Studies at the University of North Carolina at Chapel Hill, have produced interesting and provocative leads that offer hope of unraveling the mystery of alcoholism, and which strongly suggest that alcoholism is a disease, rather than a disorder of willpower.

Exploring biochemical factors

The Center is engaged in a variety of studies which are attempting to explore the basic biologic causes of alcoholism. These studies, performed by UNC faculty investigators from

> **"The Center (for alcohol studies) is beginning a series of important studies to explore the genetic basis of alcoholism in man."**
>
> **David S. Janowsky, M.D.**

a variety of disciplines that include pharmacology, physiology, psychiatry and psychology, are using interdisciplinary techniques to correlate the findings of animal experiments with observations in humans. In general, these research studies measure brain chemicals, and use drugs known to perturb specific brain chemicals to explore which of the brain's chemical systems are ajar in alcoholism, and which mediate alcohol intoxication and alcohol withdrawal.

Thus, the Center has launched a set of experiments to explore the possibility that a deficiency of one of the brain's natural chemicals, serotonin, is depleted in an ongoing way in alcoholics and in animals which prefer alcohol over water. Investigators in the Bowles Research Laboratory, led by Dr. Amir Rezvani, assistant professor of psychiatry, are actively trying to see if they can turn off compulsive drinking behavior in "alcoholic" rats and "alcoholic" monkeys, using the serotonin drug, fluoxetene, a newly marketed antidepressant.

Similarly, Dr. Rezvani and I are exploring the intriguing possibility that verapamil, a cardiac drug commonly used to treat angina, can also block the intoxicating effects of alcohol in rats. Studies exploring this possibility are based on Dr. Rezvani's observation that this calcium channel blocking drug blocks the temperature lowering effects of alcohol.

Likewise, investigators in the laboratory of Dr. George Breese, professor of psychiatry and pharmacology, are exploring the role of a natural hormone produced in the brain, called thyroid releasing hormone, as a "natural" alcohol antagonist. They are also exploring the possibility that alcohol causes its intoxication by stimulating a set of chemical receptor units which carry out the sedative and anti-anxiety effects of such anti-anxiety drugs as Valium and Librium. In addition, Dr. Breese and colleagues are exploring the possibility that the stress reducing and anti-anxiety effects of alcohol in rats are working via effects on these specific brain Valium receptors. Also, I am exploring the possibility that acetylcholine, a natural chemical which causes the heart to slow, may be a major mediator of the kind of anxiety and negative moods, such as depression, which cause some people to drink.

As these experiments progress, the Center is simultaneously developing itself into a major site for human research, where dramatic insights learned from animal experiments can be applied to the understanding and hopefully the treatment of alcoholism. A special clinical unit has been developed at Dorothea Dix Hospital to study alcoholic patients and their families. Already, studies in man based on the observation that animals intoxicated on alcohol can have their intoxication reversed with thyroid releasing hormone are being carried out by J.C. Garbutt, M.D., associate professor of psychiatry. Thyroid releasing hormone is now being given to alcohol intoxicated people with promising preliminary results.

Simultaneously, Robert Hicks, M.D., assistant research professor of psychiatry, is collaborating with Claudia Clayton, M.D., and me, to carefully study the possibility that there are major parallels between the effects of alcohol in controlling and diminishing experimental stress in man and the ability of drugs which antagonize acetylcholine to dampen stress. Dr. Hicks' pilot work is suggesting that, as seems likely in animals, too much acetylcholine may mediate stress, possibly causing people to drink alcohol compulsively.

David S. Janowsky, M.D.

Hereditary mechanisms

It is extremely likely that hereditary factors are involved in causing alcoholism. For example, breeds of mice have been developed which are "alcoholic" in the sense that they prefer alcohol to water. And, human studies clearly indicate the presence of a strong familial component in a very high proportion of alcoholics. These observations have prompted early efforts to determine the hereditary mechanisms involved in alcoholism and to characterize the responsible genes which cause the disorder.

The Center is beginning a series of important studies to explore the genetic basis of alcoholism in man, as well as in animals. At the Clinical Research Unit at Dorothea Dix Hospital, Dr. Garbutt is accumulating a group of sons of alcoholics, and a group of sons of non-alcoholics. In neither group has alcoholism yet presented itself. These two groups will be carefully compared for differences in body biochemistry as a way of beginning to study the genetic causes of alcoholism. Later, we plan to accumulate multigenerational pedigrees of families in which alcoholism is prevalent. In addition, the at-risk sons of alcoholics will be carefully followed over the years in an attempt to predict biochemically who among them will develop alcoholism. Similarly, these groups of sons of alcoholics and non-alcoholics are being studied by Ron Thurman, Ph.D., professor of pharmacology, who is following up on his observation that there is a genetically controlled tendency to break down alcohol differently in the offspring of alcoholics, as well as in a strain of rats which is super-sensitive to alcohol.

Thus, the Center hopes and plans to vastly expand its investigations of the genetics of alcoholism, with the dual objectives of characterizing the gene responsible for alcoholism and of identifying subjects at risk for alcoholism before the disease develops.

Physical/faculty expansion

The expansion of the scope of the Center for Alcohol Studies will in large part be based on the building of a recently approved 36,000 square foot home for the Center—a happy outcome of the heroic and extensive efforts of the late Hargrove "Skipper" Bowles of Greensboro, for whom the building will be named. As this facility is built over the next 18 months, the Center is vigorously planning to expand its research efforts. A major goal will be to hire faculty scientists skilled in the science of molecular biology. A cadre of molecular biologists and geneticists will work toward the isolation of those genes which specifically cause alcoholism.

Also to be recruited are specialists focused on studying and understanding the way in which various drugs affect the biochemical expression of alcohol's effects. These faculty members will give us core strength in pharmacogenetics and molecular pharmacology.

Finally, and of great importance, the expanded Center for Alcohol Studies will serve as a national magnet for the training of generations of new scientists who will focus on understanding the biology of alcoholism. With such a training ground will come the high likelihood that the mysteries of alcohol will be unraveled, and that a cure for this devastating disease will be forthcoming.

Telephone Assuming Powerful New Role In Modern Medicine

For all medicine's high-tech image, the telephone—that ordinary, often overlooked, everyday part of our lives—is an increasingly important part of medicine.

"The telephone is an essential part of life in most westernized countries and is just as vital to the normal functioning of modern medical practice," says Peter Curtis, professor of family medicine.

Writing in an editorial in the *Journal of General Internal Medicine* for May/June 1988, he notes: "The first call ever made (in Bell's laboratory) was to ask for help in treating an acid battery burn, and subsequently physicians were quick to realize the value of this device in improving the efficiency of their work."

Curtis says, "Today, doctors in the primary care specialties all have relatively high proportions of their contacts with patients over the telephone; 25 percent for internists, 28

percent for pediatricians, and 19 percent for family physicians. Pediatricians, for instance, manage an average of 41.5 calls per week."

Kenneth Reeb, M.D., chair of UNC's family medicine department, points out that "a significant part of a physician's day is spent in telephone medicine."

Yet, considering all the medical training a physician receives, relatively little, if any, training is provided in the area of telephone medicine.

"That is what Dr. Curtis has developed," says Reeb.

Curtis came to Chapel Hill as a visiting professor in 1973. After 10 years of practice as a country doctor in England, he was immediately struck by the "problems managed on the telephone by residents and faculty physicians. It was much more extensive than I had been used to in England.

"The other thing was that there seemed to be a lot of calls. The *numbers of patients* we were looking after. . . ! It seemed to me that this was an important part of medical care."

Yet when he went to review the literature on the subject, he found little in the medical literature.

Curtis joined the School of Medicine in 1976. Soon afterwards, a pilot study for a project for the documentation and analysis of after-hours calls was initiated through support from the Health Sciences Research Center at UNC.

Looking back to the early review of after-hours calls, Curtis says, "It became fairly evident that certain kinds of problems were repeating themselves. One was that of communication. At other times, a certain amount of frustration and anger was involved. The doctors felt their time was being invaded by patients with trivial complaints.

"For example, in their period of transition from hospital-based training to primary care training, they perceived the symptoms of a woman with a urinary tract infection—some pain and having to get up every half hour during the night—as being of minor importance. To them this was not particularly important, especially when compared with pneumonia or a heart attack. But to that woman it was obviously very stressful. She wanted reassurance and help," Curtis notes.

"On the telephone, it's important for physicians to tune into the problem in a short space of time. It's not like taking a traditional medical history. The average call takes from two to four minutes.

"Then there's the need for physicians to understand that it is frustrating to deal with a problem over the phone, without actually seeing the patients or having good control over what they can do, assessing how ill they are and making a decision about whether or not to see them. This creates a lot of uncertainty."

One characteristic shown in Curtis's studies is that residents tend to take more time with callers than practicing physicians. The latter, Curtis says "have learned shortcuts over time and their questions can screen quite accurately how sick the patient is." As an example, for a mother calling about a sick child, the question "Is the child active, playing or running around?" indicates little cause to worry.

"But if she answers that the child is listless or floppy, then red flags start waving. These questions should be asked early on," Curtis says. "A resident might go through a whole range of questions at the beginning of the call without actually getting to the patient's agenda."

> **"People get worried. It gets dark. They feel stranded, feel panicky. The question becomes not just 'How sick are you?' It's 'How are you doing?'"**
>
> Kenneth Reeb, M.D.

Susan Evens, a research assistant who works with Curtis, says a number of projects have grown out of Curtis's original research. "From that, our teaching program for students and residents grew. Out of the educational program, we developed a program for medical office personnel as well. In light of all the medical-legal issues that revolve around the telephone, it's really important that doctors document their calls and try to keep good records on the problems."

The telephone medicine program is geared toward residents, medical students and faculty, but includes nurses and other health care professionals. A number of seminars and workshops have been given, some for AHEC and some as far away as Reno, NV. The educational programs, sold through the Health Sciences Consortium, consist of videotapes, audiotapes, and simulated calls. The videotapes and audiotapes are done in cooperation with the UNC drama department, while the simulated calls are done by individuals trained to contact learners who are on call and to then raise medical questions and home health situations. Evens points out that the notebook for training is divided into two parts—communication skills and clinical skills. The clinical part is the one less emphasized.

"We feel that's the sort of information they already get in their training and their texts. What we want to talk about is taking a good telephone history. How do you take a good history? Decision making. How do you make a good decision? How do you communicate effectively? How do you ensure that compliance is taking place? These are issues that circle around communications, rather than clinical issues," says Evens.

For good reason. Their five-year study of 12,499 after-hours calls to the UNC Family Practice Center included follow-up interviews (within seven days) with 798 of the callers.

"Ninety percent said that reassurance was the most important thing the doctor did," says Curtis. "Not what was prescribed, and not what diagnosis was made, but the reassurance."

Reeb also stresses the importance of reassurance. "There are people who are heavily dependent on doctors. I've seen young physicians in training who got very good at supporting people on the telephone."

He says he appreciates the telephone's power as a counselling tool.

"There's a story about a country doctor in Montana who died. Following his death, about 10 or 12 people—patients from his practice—were admitted to mental institutions. You see, these were patients he'd kept going in the community through the strength of his support of their other needs by using the telephone."

Reeb considers this in the quiet of his office. "People get worried. It gets dark. They feel stranded, feel panicky. The question becomes not just 'How sick are you?' It's 'How are you doing?' "

Telephone medicine is important in one other regard. The new emphasis on ambulatory care, as Curtis points out, "is changing the nature of hospital medicine in America. People don't stay as inpatients for as long. This means that residents and medical students don't see enough patients for their training. There's much less opportunity to learn medicine in the wards than there used to be. So now there's a much greater move to out-patient training or ambulatory care training. The telephone medicine program can be one facet of the new growth area of medical training."

In other words, if a patient stays in the hospital only 5 days instead of 10, he or she is more likely to call the doctor more often for follow up as an outpatient or for home care.

"Exactly." Curtis nods. "And so you need more follow up—thus, an increased emphasis on the use of the telephone."

Singing the Praises of Barbershop Harmony

By Marjorie Seng Srsic

The Triangle area is alive with the sound of barbershop harmony, that toe-tapping, uniquely American music with roots that extend to the South and the days of Vaudeville.

The School of Medicine boasts four of the area's most vocal supporters of barbershop singing: Gerald Fernald, M.D., professor and associate chair of pediatrics; Ron Knight, administrative assistant for the AIDS clinical

Looking dapper in their skimmer hats are barbershop singers from the School of Medicine (from left) *Gerald Fernald, M.D., pediatrics; Paul Leung, Ph.D., medical allied health; Ron Knight, infectious diseases; and Hugh Burford, Ph.D., pharmacology. (Photo: Doug Van de Zande)*

THE CAROLINA CONSULTATION CENTER:

A Special Pullout Report

Carolina Consultation Center Marks Second Anniversary

The Carolina Consultation Center, created to meet the needs of referring physicians throughout North Carolina, recently marked its second anniversary. End-of-year figures "show clearly that we have remained on track with our original goal—to link the state's practicing physicians with our physicians and the range of information and services they represent," says Becky Crowley, director of the center.

In 1987-88, Consultation Center staff handled 31,651 calls, a seven-percent increase over the number of calls received in 1986-87.

"Most of these calls come from physicians who already refer patients to Memorial or who plan to refer," notes Crowley. "This is fairly consistent with the fact that referral patients represent the major group of individuals seen at Memorial."

The accompanying charts and graphs summarize other pertinent end-of-year data.

Harold Pillsbury, M.D., medical director of the Consultation Center, says he is confident that the center will continue to fulfill what he sees as its most important mission: service to North Carolina's physicians.

"As a university teaching hospital and major medical center, our future hinges on our ability to meet fully the needs of our state's physicians," he says. The Consultation Center is helping us meet this obligation."

Physicians who would like more information about the Carolina Consultation Center, or a complimentary copy of its *Directory of Consultants* should call Crowley at the center's toll-free number: 1-800-862-6264.

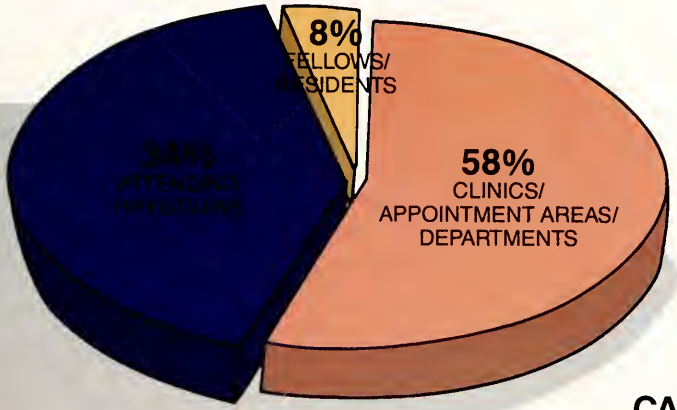
Call Received by Departments

1987-88

Department	Total Calls
Anesthesiology	54
Dermatology	139
Family Medicine	224
Hospital Dental Services	25
Hospital Laboratories	9
Medicine	4056
Neurology	612
Obstetrics/Gynecology	879
Ophthalmology	148
Pathology	75
Pediatrics	2285
Psychiatry	126
Radiology	72
Surgery	1585
Radiation Oncology	39

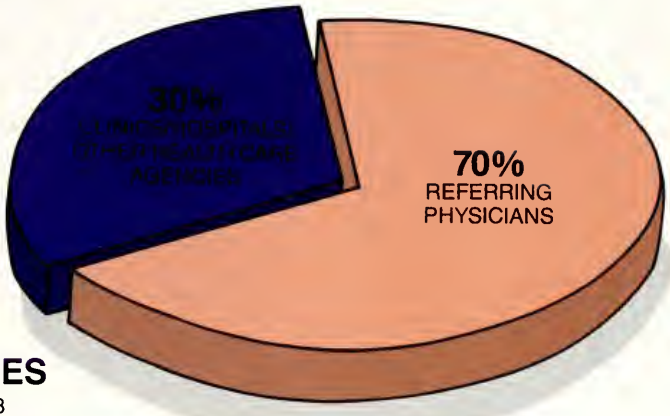
CALL DISPOSITIONS

JULY 1987-JUNE 1988



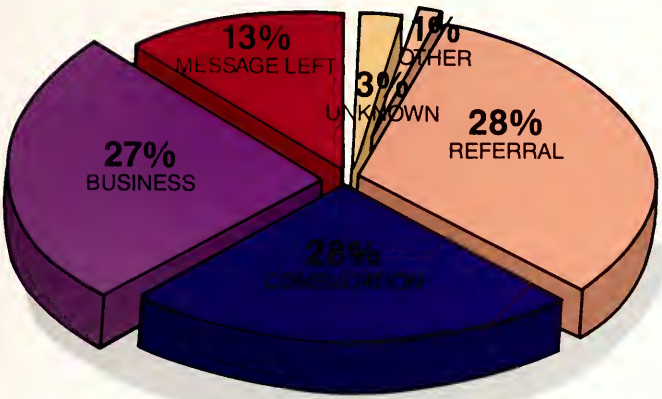
CALL ORIGINS

JULY 1987-JUNE 1988

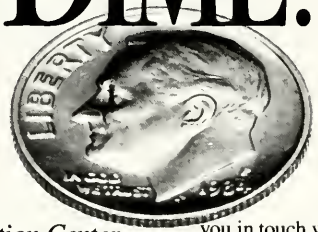


CALL OUTCOMES

JULY 1987-JUNE 1988



How To Add Consulting Staff And Not Spend One Thin Dime.



The Carolina Consultation Center at the University of North Carolina medical center provides reliable help, fast and free.

The Carolina Consultation Center provides rapid access to top specialists and advanced clinical information in virtually all fields. We put 530 specialists—the entire staff of the UNC medical center—at your fingertips.

Over the past 20 months more than 5,000 physicians—one of every two practicing in North Carolina—have used the center for information, requests for support and contacts to expedite transfers of patients.

The center is staffed by trained information specialists who have only one job—to put you in touch with the resources you need. With our computerized registry, we can make your connection quickly and see that your questions are answered in minutes.

For a free copy of the Carolina Consultation Center's Directory of Consultants, call 1-800-UNC-NCMH. This up-to-date listing of the medical staff, complete with biographies and areas of expertise, is an invaluable tool to help you determine the consultant you need, before you place your call.

The call, the directory, and the service are all free.

Carolina Consultation Center
North Carolina Memorial Hospital

1-800-862-6264

studies group; Hugh Burford, Ph.D., pharmacology; and Paul Leung, Ph.D., associate professor and director of the division of rehab counseling, medical allied health.

These "gentlemen of song" belong to two of the state's 12 barbershop chapters—the Research Triangle Park Chapter and its newly formed counterpart in Chapel Hill.

The umbrella organization for 40,000 barbershoppers in the United States and such foreign countries as Great Britain, Sweden, and New Zealand is SPEBSQSA—the "Society For The Preservation and Encouragement of Barbershop Quartet Singing in America."

Most people sing with the chapter's chorus and, if they remain an active barbershopper, eventually establish a quartet with fellow members or those from neighboring affiliates.

Fernald and Knight sing with the Research Triangle Park's General Assembly chorus (which took fifth place internationally in 1986); additionally, they comprise half of the Carolina Blue quartet and support the Chapel Hill Chapter. Knight is also music director of the Chapel Hill's chorus, the Hilltop Harmonizers.

Burford, an original member of the Carolina Blue, now sings with the Still Working On It quartet and General Assembly chorus, and helped found the Chapel Hill Chapter. Leung lends his voice to the Hilltop Harmonizers and Chapel Hill's Piedmont Pitchmen quartet.

Regardless of professional interests or chapter affiliation, they share a love of music which encompasses a combined 43 years of barbershop singing. Common reasons for getting involved include the camaraderie and the challenge of memorizing words, music and staging for an ever changing 20-song repertoire.

Barbershop singing is a natural stress reducer. "In 10 years, I can't remember thinking about any of my problems during rehearsal."

Gerald Fernald, M.D.

Doug Van de Zande

But the commitment to barbershopping comes from what Burford calls the "magic" of getting the notes right and the special thrill of an appreciative audience.

"We get a great lift when we sing for the community," says Fernald. "When the quartet is in 'good voice,' the audience is particularly receptive and supportive. We feel better—perhaps we even sing better," says Fernald.

And maybe lead medically improved lives because of their healthy harmony. Among other pluses, barbershop singing is a natural stress reducer. "In 10 years, I can't remember thinking about any of my problems during rehearsal," Fernald adds.

Surprisingly, those who sing may increase their life span by 20 years or more. A study by the Gerontology Research Center, National Institute on Aging, and the University of Maryland, examined the heart and lung function of opera singers (aged 28 to 65) with a control group of young non-singers. Even singers who smoked or did not exercise demonstrated stronger chest-wall muscles and better heart-pumping capability than the non-singers.

Medical benefits notwithstanding, barbershoppers have been known to break into song at the drop of a skimmer hat. They've entertained hospital employees at the Medical Center's annual Christmas tree lighting; performed at University functions, patients' rooms, prisons, nursing homes, malls, and civic events; and enlivened family reunions, birthday parties, and pig pickin's.

Frequently, barbershop melodies evoke poignant memories for those in the audience. Knight recalls performing a relatively obscure World War I song called "So Long, Mother" at a nursing home.

"An elderly man who had fought in that war came up to us with tears in his eyes, saying he remembered the song from 70 years ago," says Knight, adding, "A lot of times a very good barbershop quartet can touch people."

Every Valentine's Day barbershoppers around the country express the sentiments of many by singing "Let Me Call You Sweetheart" and "Heart of My Heart" for a $25 donation. All proceeds of this fundraiser, along with a portion of money collected from performances, goes to the Institute of Logopedics in Wichita, Kan., a leader in research and special programs for those with communicative handicaps. Fittingly, "We Sing That They Shall Speak" is a beloved barbershopper slogan and song.

If barbershop singing strikes a responsive chord for you, consider joining a local chapter. And who knows? You may join the ranks of such famous barbershoppers as Harry Truman, Mitch Miller, and the Osmond Brothers who knew firsthand the truth of the maxim, "If you're too busy to sing—you're too busy!"

Faculty Notes

Bill Wood Returns To Teaching, Research

William B. Wood, M.D., who for more than a decade served as associate dean for continuing education and alumni affairs in the School of Medicine, has resigned to pursue fulltime his teaching and research activities.

William E. Easterling, Jr., M.D., has been named to fill the vacancy.

Wood had directed the alumni affairs and continuing education office since 1978 and prior to that, was associate director for the office.

Wood

A pulmonary specialist with interests in asthma, allergies, immunological lung diseases and chronic respiratory infections, Wood is a professor of medicine and director of the Adult Allergy Clinic at North Carolina Memorial Hospital. He received his undergraduate and medical degrees at UNC-Chapel Hill. He joined the faculty of the School of Medicine in 1963.

...And Bill Easterling Accepts New Challenge

William E. Easterling, Jr., M.D., has been named associate dean for continuing education and alumni affairs in the School of Medicine.

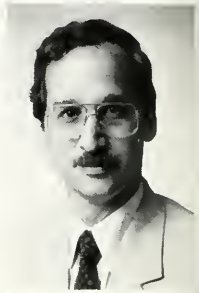
Easterling, professor of obstetrics and gynecology, has held a number of senior administrative positions in the medical center, including that of associate dean for clinical affairs and, for 14 years, chief of staff of the North Carolina Memorial Hospital. In addition to his work in our medical center, he is active in local, state and national professional societies. He has earned great respect as an effective administrator and as an exemplary statesman for medical education.

Dean Stuart Bondurant said, "Dr. Easterling's considerable credentials as a scholar and educator uniquely qualify him for leadership in planning and executing a major new School of Medicine initiative in continuing medical education and alumni affairs.

Easterling

"We are pleased and proud that Dr. Easterling is assuming this key position and we look forward to his contributions in this important area."

Joel M. Tepper, M.D., professor and chair of radiation oncology, has been named director of the joint School of Medicine-North Carolina Memorial Hospital Clinical Cancer Program. The new program is designed to "improve the care of patients with cancer by strengthening relationships between patient care and basic and clinical research activities," said Medical School Dean Stuart Bondurant. Tepper, who came to Chapel Hill last year from Harvard Medical School, is widely recognized as an innovator in the radiologic treatment of cancer. He received his undergraduate degree from the Massachusetts Institute of Technology and earned his M.D. at Washington University School of Medicine in St. Louis. Before joining the Harvard faculty in 1981, Tepper was chief of radiation therapy at Malcolm Grow Medical Center and a senior investigator in the radiation oncology branch of the National Institutes of Health.

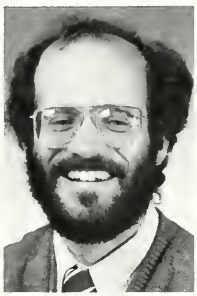


Tepper

Jeffrey A. Frelinger, Ph.D., professor of microbiology and immunology, has been named Sarah Graham Kenan Professor. Frelinger, who joined the UNC faculty in 1983, specializes in the genetics of the immune response and is investigating the way genes regulate the body's ability to respond to infections. Frelinger directs the immunology program at the Lineberger Cancer Research Center.

Frelinger

Two School of Medicine faculty members have been named recipients of the 1988 Jefferson-Pilot Fellowships in Academic Medicine. **Katherine A. High, M.D.**, assistant professor of medicine and pathology, and **Robert N. Golden, M.D.**, assistant professor of psychiatry, will receive $12,000 each over the next four years for their research and scholarly efforts. High's research interests focus on identifying genetic defects in hemophiliacs, and then using the information for prenatal diagnosis and hemophiliac carrier detection in families affected with this disorder. She is also working with techniques for gene transfer therapy. Golden is investigating the way various antidepressant medications work. Specifically, he is looking at two key neurotransmitters—norepinephrine and serotonin—and how they affect the way the body responds to antidepressants.



Golden

The following School of Medicine faculty members have been appointed professor: Larry **R. Churchill, Ph.D.**, social and administrative medicine; **Gerry S. Oxford, M.D.** and **George M. Langford, M.D.**, physiology; **Thomas W. Sadler, M.D.**, cell biology and anatomy; **Barry R. Lentz, M.D.** and **Aziz Sancar, M.D.**, biochemistry and nutrition, and **Richard B. Mailman, M.D.**, psychiatry and pharmacology.

Mailman

Robert W. Vaughan, M.D., has been reappointed chair of the Department of Anesthesiology. A clinical specialist in anesthesia for high-risk patients and for patients suffering from morbid obesity, Vaughan joined the UNC faculty in 1983. His research focuses on the mechanisms for anesthetic toxicity, especially in obese patients.

Vaughan

Mary Ellen Jones, M.D., Kenan professor of biochemistry, is one of five new appointments to the 12-member National Advisory General Medical Sciences Council. Her appointment is effective through December 1990.

Frank C. Wilson, M.D., professor and chief of orthopaedic surgery, has been named president of the American Board of Orthopaedic Surgery. The Board was established in 1934 as a private, nonprofit group that sets educational and competency standards for orthopaedic surgeons. It certifies nearly 500 surgeons annually as diplomates of the board.

Joe L. Camps Jr., M.D., and **John D. Crouch, M.D.**, are recipients of the department of surgery's 1988 Nathan A. Womack Scholarship Award. The award, which recognizes general excellence in teaching, investigation and patient care, goes to surgical residents who have also made significant contributions to the residency program and to the Department of Surgery.

Camps

Harold R. Roberts, M.D., professor of medicine and pathology and director of the UNC Center for Thrombosis and Hemostasis, has been appointed chairman of the Medical and Scientific Advisory Council of the National Hemophilia Foundation. Roberts has also been appointed to a three-year term as chairman of the hematology study section of the National Institutes of Health.

Hammond

Six faculty members from the department of Ob/Gyn have been recognized as among the nation's best physicians in the field. According to a national poll done by Good Housekeeping Magazine in which queries were made to 250 department chairmen and section chiefs in ob/gyn at major medical centers, UNC had the most physicians on the list of 107 doctors. The six named in the list are: **Watson A. Bowes, M.D.**, professor of ob/gyn and pediatrics; **Robert C. Cefalo, M.D.**, professor of ob/gyn and pediatrics and division chief for maternal and fetal medicine; **William E. Droegemueller Jr., M.D.**, professor and chair of ob/gyn; **Wesley C. Fowler, M.D.**, professor and division chief for gynecologic oncology; **Mary G. Hammond, M.D.**, associate professor and division chief for reproductive endocrinology; and **Luther M. Talbert, M.D.**, professor of ob/gyn.

Talbert

H. Stanley Bennett, M.D., Sarah Graham Kenan professor emeritus of anatomy, received the American Association of Anatomists 1988 Henry Gray Award. The award, the highest given by the association, recognizes contributions to the association and to the field of anatomy.

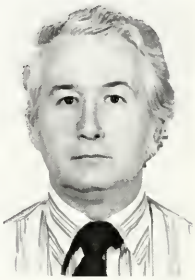
Timothy J. Ives, M.D., assistant professor of family medicine, is recipient of the David S. Citron Award in family medicine, which is presented annually to an outstanding junior faculty member in the Department of Family Medicine. Ives was cited for his dedication, service and commitment to family medicine education.

Nancy J. Charest, M.D., research assistant professor in pediatrics, was awarded the Genentech Clinical Scholar Award as the nation's most outstanding young investigator in pediatric endocrinology. The award is a two-year, $50,000 grant given annually by Genentech to a young investigator who is starting a career in academic pediatric endocrinology and who is studying the factors that affect human growth.

Michael C. Sharp, M.D., associate professor of pediatrics, has received an award for "Outstanding Contributions to Infants and Families" by the North Carolina Association for Infants and Families. Sharp is director of the Family Support Network of North Carolina, which helps link parents of special needs children throughout the state. He also heads the Family Information Network, a computerized resource center for parents, families and professionals in North Carolina.

Cecil G. Sheps, M.D., Taylor Grandy Distinguished Professor of Social Medicine, emeritus, has received the Distinguished Investigator Award of the Association for Health Services Research. In addition, awards bearing Sheps's name were presented by UNC-Chapel Hill to commemorate the 20th anniversary of its Health Services Research Center. The Cecil G. Sheps Distinguished Investigator Award was given to six persons during a ceremony marking the event.

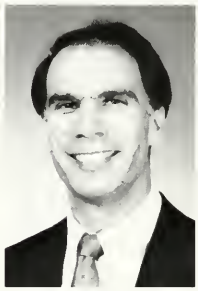
Frank A. Loda, M.D., professor and division chief of community pediatrics, has been appointed director of the UNC Center for Early Adolescence.



Loda

Joseph Hall, Ph.D., clinical associate professor of surgery and medical allied health professions, received a Javits Award from the National Institutes of Health for work on the effect of auditory deprivation on patients with conductive hearing loss. Hall's work looks at the effects on binaural hearing.

Charles P. Friedman, Ph.D., associate professor of family medicine, has been appointed director of the School of Medicine's Office of Research and Development for Education in the Health Professions. An educational research and development center for the medical school, ORDHEP staff work with basic science, clinical and allied health faculty in areas such as curriculum, instruction, faculty and student development, and student and program evaluation.



Friedman

His appointment was announced by Stuart Bondurant, dean of the School of Medicine, who noted Friedman's "large and productive experience in the design, development and and application of educational programs in medicine and other health sciences." Friedman, who has been associate director of ORDHEP since 1981, is also a clinical associate professor of education and education director of the UNC Multipurpose Arthritis Center. He joined the UNC faculty in 1977.

Edison Liu, M.D., assistant professor of medicine and director of Memorial Hospital's leukemia clinic, has been named a special fellow of the Leukemia Society of America. The fellowship supports Liu's research into genetic abnormalities that contribute to leukemia. Liu is also a member of the cell biology and clinical research programs of the Lineberger Cancer Research Center.

Eugene S. Mayer, M.D., program director of the North Carolina Area Health Education Centers Program, visited Turkey, where he was invited to present a paper to the Association of Medical Deans in Europe and to the Association of Medical Education in Europe. Mayer, whose presentation focused on the AHEC experience in North Carolina, spent two months in Istanbul and Ankara, Turkey, consulting with the Ministry of Health and with the Hacettepe University Medical School in the design of regional AHEC-type training centers in parts of Turkey.

News Briefs

Pediatrician Named Recipient of 1988 H. Fleming Fuller Physician Award

Campbell McMillan, M.D., professor of pediatrics, has been named recipient of the 1988 Fuller Physician Award, presented by the Board of Directors of N.C. Memorial Hospital.

The nominating committee for the award noted that McMillan's care of children and their families is characterized by "his compassionate, generous spirit, his keen wit, and his unending patience."

In addition, McMillan was cited for his contributions as former chief of the division of pediatric hematology/oncology, which has contributed to a better understanding of the causes and treatments of childhood cancers and blood disorders.

A summa cum laude graduate of Wake Forest University, McMillan received his M.D. from Bowman Gray School of Medicine. He joined the UNC faculty in 1963 as an assistant professor, and in 1966 he was appointed associate director of the medical school's clinical research unit, a position he held for 13 years. He was named professor of pediatrics in 1972.

The Fuller Award, established in 1987, is presented in memory of Kinston doctor H. Fleming Fuller, a founding member of the hospital's board of directors. Award criteria include commitment to compassionate, respectful patient care; service as an advocate for the highest standards of patient care, and effectiveness as a professional role model for students and young physicians.

UNC Medical School Applications Up in 1988

Applications for admission to the School of Medicine rose by 9.4 percent in 1988, despite a nationwide decline in the numbers of students seeking admission to medical schools.

Applicants for UNC's 160 medical school seats totaled 2,072 this year, compared to 1,894 in 1987.

William Bakewell, M.D., associate dean for admissions, said the school's applications continue to mirror national trends both in the size and makeup of the applicant pool.

Nationwide, medical school applications fell 36 percent between 1974 and 1988. At Chapel Hill, applications have dropped 11.6 percent since 1984, when an all-time high of 2,343 applications was received by the admissions office. The sharpest decline is seen in the number of applicants who are North Carolina residents; this figure has fallen 32 percent since 1981, says Bakewell.

And while in-state applications continue to drop, the number of out-of-state applicants is increasing. This year UNC-CH received 1,578 out-of-state applications. Only 15-20 seats are available for this group.

Bakewell says the critical question is whether students being accepted to medical school are qualified.

"We have not had to take students that we felt were not qualified," he says.

Bakewell does not know how long the number of medical school applicants will continue to decrease. For now, the trend is opening up medical schools to new kinds of students, and that can be beneficial, he says.

"The attitude at UNC is that we are looking for excellence and diversity. Our interest is in a variety of people from different backgrounds with different career goals and aspirations because our mandate is to serve the health care needs of North Carolina. That's a broad mandate, so you do need a variety of people," he notes.

A Look at the Class of 1992

- Of the 160 first-year students, 143 are in-state, and 17 are out-of-state
- Females comprise 42 percent of the class
- Blacks make up 9 percent of the class; 8 percent of the class is Asian
- The grade-point average of students is 3.4
- Biology majors make up 26.9 percent of the class, while chemistry majors make up 20.6 percent
- Students come from 56 different colleges and universities; the class has 55 UNC graduates, 24 Duke University graduates, 12 N.C. State graduates and 8 students from Davidson College

Pathologist Delivers Whitehead Lecture

Dennis W. Ross, Ph.D., M.D., associate professor of pathology and medicine, delivered the School of Medicine's annual Whitehead Lecture. The lecture and presentation of faculty awards marked the official opening of the 1988-89 academic year for UNC's 160 first-year medical students.

Ross

Before a standing-room-only crowd of faculty and students, Ross, who titled his talk "Life is Not a Race to the End," reminded the audience that modern medicine and its achievements must be kept in perspective. "We don't have all the answers, and the answers we do have may be wrong," he said.

In offering advice to first-year students, Ross urged them not to worry too much over exams and grades; rather, try to enjoy medical school and residencies, and the rich experiences they offer.

"Life is far too precious to treat eight years as something you want to get through," he said.

"Never allow medicine to become dull, never allow your pursuit to become trivial. You can do this if you remember that life is not a race to the end, but medicine is."

The Whitehead program concluded with the presentation of faculty teaching awards, summarized on the following page.

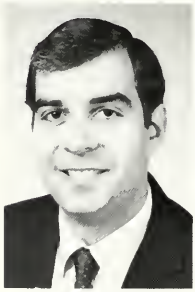
Freshman Basic Science Teaching Award: Noelle A. Granger, Ph.D., associate professor of anatomy

Granger

Freshman Basic Science Course Award: Department of Physiology (accepted by David L. McIlwain, M.D., professor of physiology)

Sophomore Basic Science Teaching Award: Park W. Willis IV, M.D., assistant professor of medicine and pediatrics

Sophomore Basic Science Course Award: Department of Cardiology (accepted by Thomas R. Griggs, M.D., professor of medicine and pathology)



Azizkhan

Battle Distinguished Excellence in Teaching Award in the Basic Sciences: David L. McIlwain, M.D., professor of physiology

Battle Distinguished Excellence in Teaching Award in the Clinical Sciences: Richard G. Azizkhan, M.D., assistant professor of surgery and pediatrics

Best Clinical Clerkship: Department of Pediatrics (accepted by Thomas F. Boat, M.D., professor and chair of pediatrics)

Outstanding Intern Award: Melisa Moore, M.D., surgery, and Chuck Pfaff, M.D., medicine

Central Carolina Bank Excellence in Teaching Award: Newton D. Fischer, M.D., professor of surgery

Kaiser-Permanente Excellence in Teaching Award: Gerry S. Oxford, Ph.D., associate professor of physiology

Arthritis Center Receives Five-Year NIH Grant

The UNC Multipurpose Arthritis Center has received a $3.6 million grant from the National Institutes of Health. The grant will support the center's arthritis research over the next five years.

Winfield

John B. Winfield, M.D., professor of medicine and director of the center, said, "This grant provides core support for our arthritis center and will support our research and educational efforts in the broad area of arthritis and musculoskeletal diseases."

Radiation Oncology Facility Under Construction

Construction has started on a $7.2 million project at N.C. Memorial Hospital that will consolidate resources for outpatient cancer treatment.

The new Radiation Oncology Center is planned as a 37,000-square-foot addition to the hospital's Gravely Building, which already houses several cancer clinics. January 1990 is estimated completion date of the project.

Joel E. Tepper, M.D., professor and chair of radiation oncology at the School of Medicine, said the new facility represents a commitment to "the coordination of all program resources to assure excellence in cancer patient care."

Each year, nearly 25 percent of the patients who come to Memorial Hospital are treated for cancer or cancer-related illnesses.

The new facility will be equipped with computer-assisted tomography that allows three-dimensional visualization of tumors; dual energy linear accelerators that produce high energy x-rays to destroy tumors; and simulators and computers to pinpoint tumor location and minimize side effects of therapy.

UNC Named One of Nation's Five AIDS Dementia Centers

The School of Medicine has been selected as one of the country's five new AIDS Dementia Centers by the National Institute for Neurological and Communicative Diseases and Stroke.

The purpose of the center is to allow physicians and scientists to better understand and treat neurological symptoms associated with AIDS. A $3.5 million grant from the institute will pay for the center's activities over the next three years.

Colin D. Hall, M.D., professor of neurology, will direct UNC's interdisciplinary center, which will include the efforts of the departments of neurology, pediatrics, psychiatry, pathology, radiology, medicine and biostatistics, as well as the University's computation center.

Other institutions designated as AIDS Dementia Centers are Johns Hopkins University, Sloan-Kettering Cancer Center and the Universities of Maryland and Miami.

Structural work advances on the School of Medicine's new Family Medicine Building at Manning Drive and the Highway 15-501 Bypass in Chapel Hill. (Photo by Dan Crawford)

Researchers Find Link Among Various Inflammatory Illnesses

Certain inflammatory diseases that can affect the kidneys, lungs, joints and sinuses and which were thought to be different, now appear to be a single disease, according to two School of Medicine researchers.

Falk

Ronald J. Falk, M.D., assistant professor of medicine, and Charles Jennette, associate professor of pathology, found that patients with supposedly different illnesses produce identical antibodies to their own neutrophils, a form of white blood cell.

The discovery will allow physicians to diagnose these potentially fatal illnesses more easily. Physicians will also be able to follow patients' response to therapy.

Jennette

Among the diseases that apparently have a single cause are idiopathic necrotizing and crescentic glomerulonephritis, Wegener's granulomatosis and microscopic polyarteritis nodosa, all of which can lead to kidney failure if untreated.

Falk and Jennette published their findings in the *New England Journal of Medicine.*

Class Notes

Manning Berryhill Club

William S. Wall, M.D. '30, lives in Rocky Mount, where he is a general practitioner.

George W. Plank, M.D. '42, retired from his general surgery practice in 1984. Plank lives in Kings Mountain. His son, George Jr., is a vascular surgeon at Bowman Gray medical school. Plank also has four daughters and 16 grandchildren.

Jack Hughes, M.D. '43, retired earlier this year.

Dean Winn, M.D. '45, who lives in Woodland, CA, writes that he plans to retire in another year or so.

John H. Monroe, M.D. '45, shares his observation that "full retirement is a different world!" Monroe lives in Winston-Salem.

J. Edward McKinney, M.D. '46, is a family practitioner in Chattanooga, TN.

50s

G. Reginald Tucker, M.D. '55, writes that he is "nearing 30 years of family practice" with the Henderson Family Medicine Clinic.

Robert S. Cline, M.D. '57, says he recently retired from medicine to "do some things I've wanted to do for the past 30 years."

60s

Bryce Templeton, M.D. '61 (HS), heads up the medical student education program at Jefferson Medical College in Philadelphia.

A. Everette James, M.D. '63, traveled to Japan this past summer to lecture to the Japanese College of Radiology on "Research in Medical Imaging." James was made an honorary member of the Japanese organization.

Robert J. Demuth, M.D. '64 (HS), has been promoted to professor of surgery at the Oregon Health Sciences University and is acting chief of the division of plastic and reconstructive surgery, and director of the plastic surgery residency program.

70s

John E. Hanna, M.D. '70, is a urologist in Laguna Niguel, CA. He writes "I follow Duke and UNC football and basketball closely, and I go to most Duke and UNC alumni events here in Southern California."

Stephen L. Green, M.D. '70, lives in Newport News, VA, where he is part of a three-person practice in infectious diseases. The Greens have three daughters.

Sara Hendricks Sinal, M.D. '71, has been promoted to associate professor of pediatrics and family medicine at the Bowman Gray School of Medicine of Wake Forest University. She joined the Bowman Gray faculty in 1975. Sinal is also the recipient of an award for "exceptional commitment to the prevention of child abuse," presented by the Exchange Club Child Abuse Center of North Carolina.

Baxter Leonard, M.D. '72, is a family practitioner in Thomasville.

L. Franklin Cashwell, M.D. '72, has been named associate professor of ophthalmology at the Bowman Gray School of Medicine. Cashwell has been on the faculty of Bowman Gray since 1977.

Stanley Jordan, M.D. '73, has received the Ross Outstanding Young Investigator Award from the Western Society for Pediatric Research. Jordan is chief of pediatric nephrology at Cedars-Sinai Medical Center, Los Angeles.

Thomas R. Dempsey, M.D. '73, is a pediatric orthopaedic surgeon in Mobile, AL. Dempsey and his wife, Kate, have three children.

Michael E. King, M.D. '77, has a practice in orthopaedic surgery in Winston-Salem. He and his wife, Susan, have four children.

Francis S. Collins, M.D. '77, has been appointed chief of medical genetics at the University of Michigan Medical Center, where he is an assistant professor of internal medicine and human genetics. Collins joined the faculty of the University of Michigan in 1977.

Douglas E. Henley, M.D. '77, has been appointed to a special committee of the North Carolina General Assembly to study neurological defects in newborns. Henley, who practices with the Hope Mills Family Medicine Center, is president of the N.C. Academy of Family Physicians.

Allen R. Edwards, M.D. '79, lives in Statesville with his wife **(Pat Hill, M.D. '79)** and their one-year-old daughter, Kate.

80s

John Markushewski, M.D. '80, is a major in the United States Air Force and has been appointed chief of hospital services at the USAF Hospital in Dyess, TX.

Saundra Maass-Robinson, M.D. '81, lives in East Point, GA, and has a practice in adolescent and adult psychiatry. She is on the faculty of the Morehouse School of Medicine and is clinical director of the Adolescent Psychiatric Hospital. Maass-Robinson writes that she misses "the best medical school in the world!"

Stephen Buie, M.D. '81, is on the medical staff of Highland Hospital in Asheville, where he has organized a personality disorder treatment program.

David K. Harper, M.D. '81, is a partner of the Cabarrus County Ophthalmology Clinic in Concord. Harper has two sons and a daughter.

Joseph P. Hatem, M.D. '82, lives in Wilmington, where he practices internal medicine with **Neal Thompson, M.D. '84.**

Peter R. Watson, M.D. '83, is completing a fellowship in hematology-oncology at the Medical College of Georgia. Watson plans to enter practice in Kinston. He and his wife, Anita, have two children.

Maryanne Dooley, M.D. '83, has returned to the Triangle area from the University of Massachusetts, where she was chief resident in medicine. She now has a fellowship in rheumatology at Duke University. Dooley and her husband have a daughter.

Franklin Hargett, M.D. '83, is a clinical instructor in family medicine at the East Carolina University School of Medicine. Hargett is a diplomate of the National Board of Medical Examiners and a member of the American Academy of Family Physicians and the N.C. Academy of Family Physicians.

Douglas W. Clark, M.D. '83, has been elected to fellowship in the American Academy of Pediatrics.

Ronald P. Hargrave, M.D. '84, recently completed a residency in emergency medicine at Richland Memorial Hospital in Columbia, SC, and is now director of emergency medicine at Piedmont Medical Center in Rock Hill, SC.

Paul Edward Viser, M.D. '84, is an internist in Whitesburg, KY. He and his wife, Diane, have a daughter. Viser plans to enter practice in Winston-Salem in mid-1989.

Michael E. Norins, M.D. '86, is in his third year of an internal medicine residency at Moses Cone Hospital, Greensboro.

Richard A. Burgoyne, M.D. '86, received an award from the American Academy of Family Physicians to help finance his graduate training in family medicine. Burgoyne was chosen on the basis of scholastic achievement, leadership and interest in family medicine. He is a family practice resident at East Carolina University School of Medicine.

Jeffrey Stolz, M.D. '88, received the Award for Innovations in Health Promotion and Disease Prevention from the U.S. Department of Health and Human Services. The award recognizes Stolz's efforts in helping develop a project that will provide medical students with the training, curriculum and materials to educate adolescents on AIDS prevention. The project is called STATS, Students Teaching AIDS to Students.

Deaths
Edward B. Mewborne, M.D. '25
Hubert L. Clapp, M.D. '30
Solomon A. Robins, M.D. '33
C. Gordon Smith, M.D. '38
John H. Thompson, M.D. '59

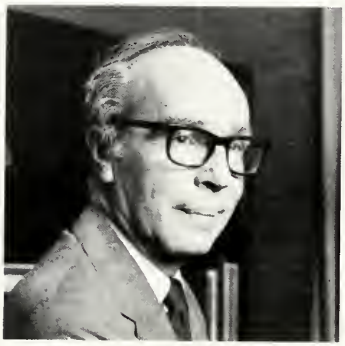
Nonprofit Organization
U.S. Postage
PAID
Chapel Hill, NC
Permit No. 24

PERIODICALS DEPARTMENT
HEALTH SCIENCES LIBRARY
CB 7585
CHAPEL HILL NC 27599

Medical Alumni BULLETIN

School of Medicine, University of North Carolina at Chapel Hill

Dean's Page



In February, Bill Wood completed his responsibilities as Associate Dean for Alumni Affairs and Continuing Medical Education after 10 years in that position and, after a leave of absence spent in the study of clinical allergy in London, Bill will expand his long-standing clinical academic interest in allergy. It has been my singular and great pleasure to work closely with Bill for the past nine years. In a thoughtful, sound and effective way, Bill has led with distinction in developing the affairs of the Alumni Association and expanding the programs of Continuing Medical Education of the highest quality. He has been a thoughtful source of wise counsel on all matters concerning the School of Medicine. Working closely with the officers of the Medical Alumni Association, he and his wife, Giny, have hosted outstanding biennial meetings of the Association and a large number of regional meetings as well.

I am sure that many alumni know of Bill's statewide leadership in the development of programs to assist troubled physicians. Many might not know that he has extended this interest to include medical students, and he has earned the appreciation and respect of generations of our students who have turned to him for information, help and guidance. He has represented the School of Medicine in the design of the William and Ida Friday Continuing Education Center at the University. His contributions to the design of the center will make it a far more effective facility for all who use it. Most particularly, Bill has stimulated the incorporation of modern techniques of information transfer and display.

The Continuing Education Program of the School of Medicine is broad in scope, as well as strong and highly respected. The faculty contribute immensely to this effort, of course. But the medical school's continuing education courses would run much less smoothly without Bill's powers of patient attention to detail and anticipation of participant needs.

In all of these tasks, Giny Wood has been an enthusiastic and committed contributor. Bill and Giny have left their mark on the Office of Associate Dean for Continuing Medical Education and Alumni Affairs. All of us who have had the great pleasure of working with them will always be deeply appreciative. The Alumni Association and the Continuing Education programs of the School of Medicine will bear Bill and Giny's mark as they develop in future years.

Stuart Bondurant

Stuart Bondurant, Dean

Medical Alumni BULLETIN

School of Medicine, University of North Carolina at Chapel Hill

Alumni Publications Advisory Committee

Nancy C. Chescheir, M.D. '82

W. Grimes Byerly, Jr., M.D., '50, *ex officio*

Gerald W. Fernald, M.D. '60

Donald C. Fidler, M.D. '75

Daniel Gottovi, M.D. '71 (HS), *ex officio*

George Johnson, Jr., M.D. '50

Janice C. Keene, M.D.

Kenneth J. Levin, M.D.

William S. Pollitzer, M.D.

David A. Rendleman, M.D., '70, *ex officio*

John W. Stokes, *ex officio*

William E. Easterling, Jr., M.D., '56, *ex officio*

Editor

John W. Stokes,
Director, Institutional Relations

Contributing Editors

Val Lauder

Jacqueline Morris

Joni P. Porter

Michael A. Wagoner

The *Medical Alumni Bulletin* is published four times annually by the University of North Carolina at Chapel Hill Medical Alumni Association, Chapel Hill, NC 27514. Postage is paid by the non-profit association through U.S. Postal Permit No. 24. Address correspondence to the editor at North Carolina Memorial Hospital, Room 6019 PST, CB #7600, Chapel Hill, NC 27514.

Contents

Features

Computers and Medicine: The Data Highway System 2

Medical Air Makes a Big Difference 4

Easterling Leads Priority Effort 6

What's in a Name Change? Reflections on The "Social" in Social Medicine 13

New Genetic Laboratories Established at Chapel Hill 14

School of Medicine Donor Honor Roll 15

Departments

Dean's Page . . . . . Inside Front Cover

Faculty Notes 8

News Briefs 10

Class Notes 32

Alumni/CME Calendar . . . . . Back Cover

On the Cover

Kirk C. Aune, Ph.D., director of information systems, and Carol G. Jenkins, M.L.S., director of the Health Services Library, view the computer as one of "physicians' best friends." A story on how computers are changing the world of medicine at the University begins on page 2 of this issue of the *Bulletin*. *(Photo by Greg Plachta)*

All 'Data Highways' Lead to Chapel Hill

By Val Lauder

Modern medicine's transition from the calm, homey "Marcus Welby" image of the '50s and '60s to the high speed, high tech world of the '80s and '90s is making the computer as indispensable as the stethoscope.

Kirk C. Aune, Ph.D., director of information systems in the School of Medicine, says today's medical students "have been exposed to computers in the classroom. . . have had computers in their training. . . and are quite likely to be using computers to make themselves more efficient physicians. Physicians who have not been through that track will find themselves in continuing education classes and other environments that will bring them up to speed."

Perceptions are changing, too.

"The traditional view of the physician is that the world's medical memory is contained in his or her head," notes Carol G. Jenkins, M.L.S., director of the Health Sciences Library. "This perception has been changed by the explosion of information and by the growth of electronic ways to store and manage it, an acknowledgement that it is neither possible nor necessary to know everything.

"The traditional focus of medical education has been to teach everything. One of the changes taking place in the curriculum here, and in most medical schools, is a redirection away from so much emphasis on rote memorization of facts." Instead, there is more of a problem-solving approach. "What you really have to know as the physician is how to seek and find the information, apply it and make the right decision. We call these information management skills."

As Aune notes, "The most important thing about this is the fact that there is so much information available to assist a physician in carrying out his or her work that it is overwhelming without the aid of the latest methodologies and techniques."

> **"What you really have to know as the physician is how to seek and find the information, apply it and make the right decision. We call these information management skills."**
>
> Carol G. Jenkins, M.L.S.

Jenkins says that only half of the biomedical information we have today will be accurate five years from now. "And that half-life is probably getting shorter, with all the new discoveries in fields such as biotechnology and genetic engineering."

At the same time that the knowledge base is expanding, patient care is becoming decentralized. And it is not economical or feasible to set up traditional libraries in every doctor's office or practice site.

Aune and Jenkins say an electronic information network can help respond to the need for access to an increasing amount of information. Eventually, they would like to see in place a statewide network that would give a practicing physician at any site—in a hospital or an office—immediate access to the information needed.

"Computers provide the mechanism for getting the knowledge that is collected at both academic research centers and clinical care sites and dispersing it where and when it is needed," Aune says. "You don't have to own the library on site—textbooks, reference books, etc. It doesn't really matter where the piece of information ultimately comes from—whether it is from the National Institutes of Health, in a data bank that they're maintaining, or whether it comes from our library, from research files here on campus, or from patient records. The physician should know two things: what information is needed, and how to access a network that finds it. Ideally, that is the kind of network which needs to be in place."

Jenkins says there is "already a statewide telecommunications network which will basically put the electronic network in the hands of the physician pretty much wherever he might be. And the tool the physician uses to get into the network will be the microcomputer."

"It is online now. The medical school is playing an active role in establishing a

school-wide electronic network and is participating with the University, the Microelectronics Center of North Carolina and Education Computing Services to bring a statewide electronic network to maturity," Aune says. "It is simply expanding to more and more institutions and units in the state. Currently, Chapel Hill, Duke, North Carolina State, Bowman Gray and several other sites are already interconnected, using the data highway which permits, for all practical purposes, immediate transfer of information." Aune and Jenkins find the 'data highway' analogy appropriate.

"If you look at a map of the data communications system, it will look like the interstate highway map of the nation," Aune said. "Hubs such as UNC will look very much like major metropolitan areas. Although you won't be able to see the detail of circumferential highways in the network, such detail and complexity do exist within the University, providing a seamless flow of information from departmental to campus-wide sites."

"When you use your microcomputer to access these data highways, you are the 'driver'," Jenkins says.

But, she notes, certain knowledge and skills are necessary to be an effective driver. Thus, an important role for the Health Sciences Library is educating the drivers—whether they are students or practicing professionals—to use the highway system effectively.

As a result, Jenkins and her staff are active in teaching medical students and residents to do their own online searching. Currently, all second- and third-year medical students and those in several residency programs are taught how to use computers to seek information about a full range of medical problems. They learn to use the library's online catalog containing references to the books and serials in the library's collection. They also learn to use online citation indexes such as Medline to find references to relevant serials articles. After only minimal training by a librarian, most medical students and professionals find doing that online searching is easy.

"One of the things that UNC is experiencing," Aune notes, "is that not only are we becoming aware of the need to disseminate our information to other sites, but there is also increasing pressure to be able to network upward."

This means that to remain a competitive center of medical research, the medical school's information network must act as a gateway to regional and national information sources. Such sources include literature databases, such as the National Library of Medicine's Medline, as well as actual data banks like those currently registering molecular sequences deposited with them by researchers.

As they develop the network, Aune and Jenkins are keenly aware that the information made available must be of value to users. "We are trying to provide information which is being collected in the School of Medicine and offer it to the entire health care community."

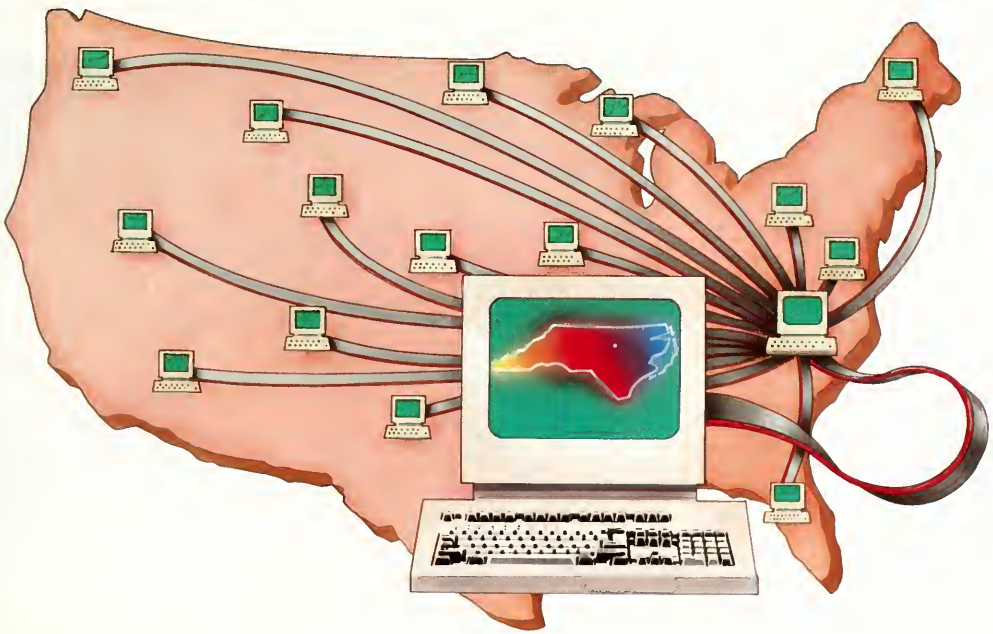
Soon, for example, the network will provide access to UNC clinical research into databases. Already, in collaboration with the Health Sciences Library, Aune's office has "established an online AIDS information file. This file includes references to AIDS information in the library, and can be consulted and transferred electronically statewide."

In addition, the network provides access to the library's online catalog and a serials database identifying specific issues held for more than 4,700 biomedical serials titles. On campus, the School of Medicine network also links about 500 users of the medical school's electronic mail system and supported information databases.

All of these databases are currently available using microcomputers or terminals on the UNC campus.

"We are planning to open up the information network system to AHEC centers and we are very much interested in having alumni begin to use this system," Aune says. His office is working out a mechanism whereby physicians anywhere in the state can call a toll-free telephone number from their microcomputers to gain access to the information network being developed in Chapel Hill.

Says Aune, "In short, we are building data highways, and it is very likely that more and better highways will be leading to Chapel Hill in the coming months and years."



The Flying Faculty: MedAir Assures Availability Of Medical Service in All Corners of the State

The UNC-CH School of Medicine isn't as far away as it used to be from North Carolina's hospitals, classrooms and rural communities.

A new fleet of planes with sophisticated navigational equipment is helping MedAir, the University's air transport system, make health care even more accessible for North Carolinians everywhere.

"Last year alone, MedAir passengers flew more than 625,000 miles," says Raymond E. Faherty Jr., MedAir director. "In effect, we are the wings of the University."

Since 1978, School of Medicine physicians, students, residents and other health professionals have flown 12 million miles in MedAir trips from Chapel Hill to cities and towns across the state to share their knowledge and expertise.

The medical school's Area Health Education Centers Program administers MedAir. AHEC is a system of nine regional centers that work with the four academic medical centers and with teaching hospitals, health departments and other universities.

Nearly three-fourths of passengers who fly MedAir are UNC medical faculty, residents and students. Along with AHEC staff members, they fly to more than 100 North Carolina cities and towns. Every working day, MedAir planes fly an average of 2,500 passenger miles.

Such efficiency is possible in large part because of MedAir's fleet of five Beechcraft Barons and a Piper Aztec. Each plane can carry up to five passengers anywhere in the state in less than 90 minutes, and can land at even the smallest airport.

The planes' small airport capabilities and MedAir's flexible scheduling allow passengers to accomplish a lot in a single day. For example, MedAir pilots may transport faculty and residents from the School of Medicine to Whiteville to see patients at a consultation clinic and to conduct a case review conference; a professor in the School of Nursing to Rocky Mount to teach a continuing education workshop; and School of Public Health faculty to Hickory, where they teach classes in an off-campus program for persons working toward an M.A. degree.

Passengers board for educational mission.

The MedAir flight line at Horace Williams Airport in Chapel Hill is a busy place on the typical weekday morning. Last year MedAir passengers flew more than 625,000 miles.

Besides Faherty (who is also a pilot), the MedAir staff consists of five full-time and two part-time pilots, two certified mechanics, two transportation coordinators and three ground support personnel. All are based at the University's Horace Williams Airport, with facilities that include offices, a passenger waiting area and a fully-equipped modern hangar.

This contrasts sharply with the facilities MedAir had in 1968 when the program was initiated. Carl B. Lyle, M.D., a UNC faculty member, guided a twin-engine Cessna Skymaster down the then unpaved runway at Horace Williams Airport in the first MedAir flight, which carried UNC doctors to Wilmington.

"One of the biggest barriers doctors faced in the early years of traveling to other hospitals and clinics was the time limitation," Lyle says. "Our plans back then were to develop an air fleet which would keep doctors off the road and in the hospitals and classrooms."

But achieving that goal wasn't easy.

Lyle operated borrowed planes from the grass airstrip developed during World War II, often landing with only the help of smudgepot landing lights and few navigational aids.

"Every once in a while, someone would turn off the smudgepot lights and I'd have to use the stoplight at Estes Drive and Airport Road as a marker for landing on the airstrip," Lyle recalls.

> **"Last year alone, MedAir passengers flew more than 625,000 miles."**
>
> Raymond E. Faherty Jr.

MedAir grew in the early '70s. The University paved the runway at Horace Williams and, after AHEC was created, MedAir became affiliated with that program.

"AHEC began at a critical time when the state needed to increase the distribution of health professionals in many of its underserved communities," says Eugene Mayer, M.D., AHEC director and associate dean of the medical school.

"From the beginning, MedAir has helped AHEC and the University to reach and to serve those communities."

Easterling Leads Priority Effort:

Expanding Continuing Medical Education

William E. Easterling Jr., M.D., was interviewed for these articles on one of his first days on the job as new associate dean for education and alumni affairs.

"My mission is to make physician education a continuum—from the first day of medical school to the last day of active practice."

A continuum may be defined as a continuous progression, no part of which can be distinguished from the other. And Bill Easterling says this is the way the medical profession is now perceiving the educational process.

"Let's look at it this way: Typically, physicians complete their training and enter practice in their late 20s or early 30s. If they stay active until their mid 60s, that's a career of 35 or so years—more than double the length of time invested in their formal educational training. We've got a tremendous opportunity here to have a real impact.

"I'm eager to do what I can to accelerate this lifelong learning process for the physicians of North Carolina," Easterling says.

Dean Stuart Bondurant commented: "Dr. Easterling is eminently qualified for this responsibility, and I have every confidence that his leadership will propel the University and School of Medicine to national standing as a champion and advocate of continuing medical education."

Some suggest that CME is the new frontier of academic medicine. Many U.S. medical schools are recognizing their obligations to work through CME to improve the quality of health care in today's society.

"I've always had a special attraction to graduate and post-graduate medical education, so when I was presented with the opportunity to make a contribution in this area, I accepted with great enthusiasm," Easterling says.

"Common sense tells us that education doesn't end after four years of medical school or after the residency. But the profession as a whole has not done a very good job of prioritizing CME."

Associate Dean William E. Easterling Jr., M.D., explores the state-of-the-art electronic communication center at Burroughs Wellcome Co.'s Research Triangle Park headquarters.

(Photo courtesy of Burroughs Wellcome Co.)

He positions CME as a vital investment to maintain physician competency and excellence in health care in an environment that breeds rapid technological change. This is an investment that he believes the University must support in partnership with practicing physicians.

Immediate tasks are to improve our ability to assess the content requirements for CME, design curricula and determine the best way to deliver that information.

"How do physicians learn best? By watching videotapes or hearing it live? We may have to rethink some of the traditional approaches—the one-hour lecture, the half-day symposium, the two-day workshop. These may give way to, or be supplemented by, creative formats.

"We will be looking at state-of-the-art communications such as videoconferencing. A surgical seminar in the Clinic Auditorium could be broadcast live via satellite and downlinked to locations throughout the state. All the sites could then participate in a question and answer session. This is where the technology is heading.

> **"We will be looking at state-of-the-art communications such as videoconferencing."**
>
> **William E. Easterling Jr., M.D.**

"Also, we intend to work with the Office of Educational Development to design methods to measure our educational effectiveness. We'll certainly factor in the AHECs (Area Health Education Centers) as well. They give us an excellent added dimension and flexibility."

Easterling is counting heavily on support and involvement from alumni including former housestaff throughout the state.

"It's difficult to calculate the total value that alumni bring to a medical school, but it adds up and shows up in all we do—making us better physicians, benefiting the patients we serve," he says.

"The best relationship between faculty and alumni is the one we already have and will build on, a genuine sense and spirit of collegiality.

"If lifelong education in the medical community is to succeed, it requires integration and synchronization with the alumni association's agenda. I'm looking forward to doing that."

He Likes Calling North Carolina Home

Bill Easterling's new assignment signaled an institutional transition for the UNC Medical Center. The former associate dean for clinical affairs gave a clue about his heritage when he remarked: "I will find reflecting on the past more interesting a year. . .or maybe five years. . . from now."

Twist his arm, and he'll tell you straight out: "Our center is known for its excellence, but the characteristic that truly sets us apart as a medical center is a caring sensitivity to the total needs of our patients and their families."

Easterling says he's proud that patients comment on the caring 'bedside manner' displayed by the institution. But those who know Bill Easterling say it's merely an extension of the doctor's personality.

As a practitioner, he says he measures the value of his professional contribution first to his patients, but also in terms of public service: "As we were growing up in Raleigh, my father was a North Carolina public servant. He was the architect of the state's nationally acclaimed local government commission, an arm of the state treasurer's office, which assists municipalities with bond referenda and indebtedness. My father's commitment to the people gave me an allegiance to the State of North Carolina, and I have tried to invest that allegiance in this medical center."

So far, that amounts to about 37 years. It was 1952 when he entered the UNC-CH School of Medicine. He stayed in Chapel Hill to complete his internship and a residency program in obstetrics and gynecology at NCMH.

He left Chapel Hill in 1961 for a service obligation to the U.S. Air Force and then went on a fellowship at UCLA in 1963. You can take the boy out of Carolina, but you can't take Carolina out of the boy. "We were never enthralled with Los Angeles. It didn't meet our expectations to raise a family." But Chapel Hill did. So, Easterling joined the UNC-CH faculty in 1964 and this is where he and Ellyn Easterling have raised five sons.

Easterling's roots run deep in the Old North State: "People here are special, like nowhere else. There's a warmth and hospitality that you don't find north of Henderson or south of Hamlet." That's Tarheel talk—what Bill Easterling was born and raised on. And it's both a philosophy and a way of life that has touched thousands of doctors, nurses, medical students and hospital patients during the Easterling years.

Faculty Notes

Scatliff Honored with Distinguished Faculty Award

James H. Scatliff, M.D., chair of the Department of Radiology, is the recipient of this year's Distinguished Faculty Award.

The presentation was made at the Medical Alumni Association annual banquet by Daniel Gottovi, M.D., of Wilmington, president of the association.

Scatliff

A graduate of Northwestern University Medical School, Scatliff is a past president of the Association of University Radiologists. He has authored or co-authored more than 70 research papers.

"During his 23 years as a vibrant leader within our institution, Dr. Scatliff has made many contributions to the advancement of the science of medicine," Dean Stuart Bondurant said. "I can pay Jim Scatliff no greater compliment than to say he is a marvelous and gifted teacher, evidenced by his having been selected by the medical students themselves as their 'professor of the year' three separate times."

Keith W.T. Burridge, Ph.D., associate professor in the Departments of Cell Biology and Anatomy, and Biochemistry and Nutrition, is one of two recipients of the Phillip and Ruth Hettleman Prize for Artistic and Scholarly Achievement by Young Faculty. Recognized internationally for his cytoskeletal research, Burridge is a member of the Lineberger Cancer Research Center and director of the cell biology course for medical students. Burridge, whose research looks at how cells interact with their extracellular environment, discovered the cytoskeletal proteins talin and vinculin. He also developed the use of gel overlays in detecting proteins to which specific antibodies bind. The Hettleman awards, which carry a stipend of $5,000 each, were established through a gift to the University from the late Phillip Hettleman, a New York investment broker and UNC alumnus. The other UNC-Chapel Hill faculty member who received the award is Judith M. Bennett, Ph.D., associate professor of history.

Eugene M. Bozymski, M.D., professor of medicine and director of the UNC Gastroenterology Procedures Laboratory, has been elected president of the Durham/Orange County Medical Society. Bozymski has also been named a governor of the American College of Physicians in North Carolina. As president of the medical society, he will head an organization of more than 1,000 physicians. In his role as a governor of the American College of Physicians, Bozymski will represent North Carolina in the national organization, which accredits internal medicine practitioners and publishes the *Annals of Internal Medicine.*

Bozymski

Stanley R. Mandel, M.D., professor of surgery, has been named associate dean for clinical affairs and chief of staff of North Carolina Memorial Hospital.

A surgical authority on kidney disease, Mandel is director of Memorial Hospital's organ transplant program. He is a past president of the Southeastern Organ Procurement Foundation and of the Carolina Organ Procurement Agency, and is actively involved in transplant issues, policy and procurement. He is the author of more than 60 scientific papers, abstracts and presentations, and is a Fellow of the American College of Surgeons. In his new position, Mandel will direct the medical school's programs of patient care and clinical education, and provide leadership for the hospital's medical staff.

Mandel

The following School of Medicine faculty members have been named as Fellows of the American College of Surgeons: **Richard G. Azizkhan, M.D.,** assistant professor of surgery and pediatrics; **Frank H. Christensen, M.D.,** clinical assistant professor of ophthalmology, and **Walter T. Lawrence, M.D.,** and **Stephen K. Powers, M.D.,** assistant professors of surgery. The College is a scientific and educational association of surgeons created in 1913 to help raise the standards of surgical practice and to improve the quality of care of surgical patients.

Paul Leung, Ph.D., associate professor of medical allied health, has been named Rehabilitation Educator of the Year by the National Council on Rehabilitation Education.

Colin G. Thomas Jr., M.D., Sanford and Byah Doxey Distinguished Professor of Surgery, has been elected first vice president of the Southern Surgical Association.

Arthur J. Prange Jr., M.D., Boshamer Professor of Psychiatry, has been named to the Council of Academic Societies. The Council is an affiliate of the Association of American Medical Colleges of Neuropsychopharmacology, a group which Prange served seven years as a council member and, in 1987, as president.

Prange

Gilbert C. White II, M.D., associate professor of medicine, and **Campbell McMillan, M.D.,** professor of pediatrics, are co-authors of a study published earlier this year in the New England Journal of Medicine. The study discusses the progress made by White, McMillan and other UNC researchers in using genetically engineered Factor VIII, a clotting protein, to treat hemophiliacs.

David Yoder, Ph.D., professor and chair of medical allied health, has been elected president of the United States Society of Augmentative and Alternative Communication. Augmentative communication is a relatively new type of rehabilitation for persons with severe expressive communication disorders. Its goal is to restore the ability to express needs, thoughts and feelings through the use of devices called communication prostheses. Yoder, whose work in augmentative and alternative communication is recognized internationally, is a past president of the American Speech-Language-Hearing Association.

Yoder

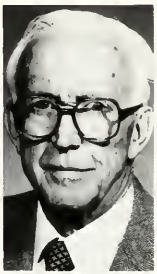
David S. Janowsky, M.D., professor and chair of psychiatry, has presented two lectures at a schizophrenia treatment symposium in Helsinki, Finland. He also spoke before the Psychoneurological Research Institute in Leningrad, USSR.

James D. Folds, Ph.D., professor of microbiology and director of the Clinical Microbiology-Immunology Laboratory at UNC-CH, has received the Distinguished Alumnus Award of the School of Graduate Studies of the Medical College of Georgia. The award recognizes alumni of the School of Graduate Studies who have distinguished themselves in teaching or research.

Folds

News Briefs

Bennett



Cromartie

Galusha

Kirkland

Tayloe

Thurston

Six Selected for School's Distinguished Service Awards

Six individuals have been honored with 1989 School of Medicine Distinguished Service Awards.

The awards, presented by Dean Stuart Bondurant April 7 in Chapel Hill, went to Noah H. Bennett Jr., of Durham, William Cromartie, M.D., of Chapel Hill, Bryant L. Galusha, M.D., of Fort Worth, Texas, John A. Kirkland, M.D., of Wilson, David T. Tayloe Jr., M.D., of Goldsboro and Doc J. Thurston Jr., of Charlotte.

Bennett, a member of the Board and Senior Vice President and Actuary for North Carolina Mutual Life Insurance Company, was recognized for his work as a member of the Board of Directors of North Carolina Memorial Hospital. His citation noted that as chair of the hospital's Employee Grievance Committee, "He has presided with sensitivity, even-handedness and Solomon-like wisdom. . ." since his tenure began in 1976. Bennett has been a leader in the Durham community and has been active in statewide activities related to public health funding.

Cromartie, an alumni distinguished professor emeritus, has served at various times, and often simultaneously, as professor of microbiology and immunology, professor of medicine, chief of infectious diseases, director of hospital bacteriology and serology laboratories and chief of staff at North Carolina Memorial Hospital. Former Dean Christopher C. Fordham III, M.D., noted "Bill Cromartie has steadfastly brought a special perspective to the medical school: the capacity to champion traditional values and principles and simultaneously to pioneer in seeking change and excellence in biomedical science and medical education." His citation recognized not only his long service, but a distinguished research career that has earned international recognition.

Galusha, now serving as chief executive of the Federation of State Medical Boards of the United States, Fort Worth, Texas, was cited for the pivotal role he played in the development of medical education in Charlotte and in the expansion of the Area Health Education Centers program statewide. His citation noted that, "Perhaps his greatest contribution was as spokesperson for the community of Charlotte and then for the North Carolina medical community" during the early development of AHEC. Galusha, a former clinical professor of pediatrics at the medical school, was the first director of the Charlotte AHEC, and served in that capacity from 1972 to 1984.

Kirkland, an obstetrician-gynecologist from Wilson and a member of the North Carolina Memorial Hospital Board of Directors, is a former president of the Medical Alumni Association. Kirkland's DSA citation characterized him as ". . .a medical statesman, with sound judgment over and above conventional wisdom." As a hospital Board member, the citation said, he is ". . .very effective in injecting a medical point of view into the governance process. He has an exquisite understanding of the role of management and governance and of the physician's need for autonomy and support." In addition, "His reputation as a sensitive, courteous and caring physician is heralded by patients and fellow physicians in the Wilson area as well as throughout the state."

Tayloe, a Goldsboro pediatrician, was cited for ". . .historic contributions to the practice of medicine in North Carolina. . ." through his work in support of legislative relief for a Diphtheria-Tetanus-Pertussis vaccine crisis in the mid 1980s. "He led through this critical time and in the process, earned a reputation for professional statesmanship and an everlasting place in the annals of advocacy for children's health in North Carolina." Interestingly, Tayloe's father, also a pediatrician, is also a School of Medicine Distinguished Service Award winner.

Thurston, founder of Thurston Motor Lines Inc., of Charlotte, is a member of the Board of Directors of the Medical Foundation of North Carolina Inc., and a long-time supporter of School of Medicine programs. "The history of human events reveals again and again that one man can make a difference," his citation said. "So it is with Doc J. Thurston Jr." Since selling his firm and retiring in 1979, Mr. Thurston "has been actively involved in improving the lot and health of others." He was recognized for his considerable philanthropic support of the Arthritis Center at Chapel Hill and for "a deep sympathy for people with arthritis and other debilitating diseases. He has a profound interest in applying his resources and abilities to improve their lives."

David R. Perry Named Associate Dean For Administration

David R. Perry of Saint Louis University School of Medicine has been named associate dean for administration at the School of Medicine.

The appointment was announced by Stuart Bondurant, medical school dean, following approval by the UNC-CH Board of Trustees. "David Perry has earned a national reputation as an innovative and effective medical school administrator," Bondurant noted.

Perry

Perry, who earned his B.A. and M.A. degrees and completed doctoral studies in political science at Indiana University, most recently served as associate dean for planning and operations at Saint Louis University, St. Louis, Missouri. Prior to joining the staff at Saint Louis in 1975, he was a budget examiner and program analyst for the U.S. Office of Management and Budget, where he worked in the areas of health resources development programs.

He has been involved extensively in the work of the Association of American Medical Colleges, including service as a member of the AAMC Task Force on Physician Supply and as member of the Association's faculty practice committee. Perry belongs to the AAMC group on Business Affairs and is a former national chairman of the AAMC Institutional Planning Group.

Students Recognized For Research Contributions

This year marks the 10th anniversary of the School of Medicine's Student Research Day, a tradition which continues to grow, as an increasing number of students contribute to the advancement of human science through research.

"We use this (Student Research Day) to celebrate the contributions of a new generation of scientists who are seeking new knowledge to improve the condition of mankind," noted Dean Stuart Bondurant.

Research presentations by 29 students highlighted this year's Research Day. Fourth-year student Dell Yarborough of Winston-Salem won the oral presentation category, while second-year student Evans Kemp of Rocky Mount received top honors in the poster presentation category.

Research done by Yarborough focused on reproductive biology involving the study of genetic defects in rats. His faculty sponsors are Elizabeth Wilson, Ph.D., associate professor of pediatrics and biochemistry, and Frank French, M.D., professor of pediatrics and division chief for UNC's reproductive biology laboratories.

Kemp's research in the area of medicinal chemistry focuses on drugs that could help the treatment of trauma-related head injuries. His sponsor is Steven Wyrick, Ph.D., assistant professor in the School of Pharmacy.

Research Day activities ended with an awards dinner. Guest speaker was Leon Rosenberg, M.D., dean of Yale University School of Medicine.

1989 Zollicoffer Lecturer Richard A. Williams, M.D. (center), *is flanked by second-year students Vincent Phillips and Angela Ferebee. Williams, acting chief of cardiology and director of coronary care at Wadsworth Veterans Administration Hospital in Los Angeles, spoke on "Blacks, Medicine and Racism." The Zollicoffer Lecture is sponsored annually by the UNC Chapter of the Student National Medical Association, a group that identifies and works to meet the needs of minority medical students.*

News Briefs

Womack Surgical Society Hosts Cornell Medical School Dean

G. Tom Shires, M.D., dean of the Cornell Medical School and provost of the University, delivered the Fourth Annual Colin G. Thomas Jr. Lecture at the recent biennial meeting of the Womack Surgical Society.

More than 100 surgeons with UNC roots participated in the three-day meeting in Chapel Hill. The scientific program featured 35 presentations.

Shires, who also chairs the department of surgery at Cornell University Medical College, spoke on "Maintenance of Homeostasis."

The Womack Surgical Society consists of current and former medical school faculty members and surgeons who completed their residencies at N.C. Memorial Hospital. The society is named for the late Nathan Womack, M.D., who in 1951 became the first chair of the medical school's Surgery Department.

Society members this year dedicated the meeting to the memory of James F. Newsome, M.D., professor of surgery, who died in 1988.

Dr. Stuart Bondurant led a salute to Nobel Prize winners Gertrude Elion (center) *and George Hitchings* (left) *at a medical school reception in March. Elion and Hitchings, scientists emeriti at Burroughs Wellcome Co., are adjunct members of the UNC-CH medical school faculty. (Photo by Dan Crawford)*

Marshall Edgell, Ph.D., microbiology, (left) and Dean Stuart Bondurant examine a parting gift at a reception recognizing Edgell's service as first director of the University's Program on Molecular Biology and Biotechnology. Edgell launched the program and served as its leader until he returned to full-time teaching and research in late 1988. Philip L. Carl, Ph.D., pharmacology, has been named acting director of the program.

What's in a Name Change? Reflections on the 'Social' in Social Medicine

By Larry Churchill, Ph.D.
Professor and Acting Chair
Department of Social Medicine

The Department of Social and Administrative Medicine recently became the Department of Social Medicine. There are several reasons for this name change. The new name is more accurate, for we neither teach nor perform administration. The previous name was also cumbersome to pronounce and difficult to remember. But "Social Medicine," while more accurate, euphonious and memorable, may still leave questions about what is denoted.

Churchill

Social Medicine means an emphasis on community and larger societal concerns in health care. It signals research and teaching about the health problems and priorities of North Carolina and the nation. It indicates an academic pursuit which explores the interface of medicine with the larger culture. The Department of Social Medicine is the most recent forum for development of these agendas. In keeping with its mission, the Department teaches and conducts research in the medical humanities and social sciences, in epidemiology and disease prevention and in a host of areas related to the organization and utilization of health care services.

For example, the Social Medicine teaching program for medical students prepares future physicians to better understand the social condition and characteristics of patients, the social contributions to illness and social barriers to effective medical care. Readings and seminar discussion of topics in medical anthropology, sociology, history, literature, ethics and medical care organization form the core of this curriculum.

The research program in Social Medicine is diverse, ranging from studies of preventive services for the elderly, service networks for the chronically mentally ill and child abuse, to moral issues in neonatology, blood bank policies and the use of anencephalic infants as organ donors. No simple phrase has yet emerged to encompass all the various emphases of research, service and teaching which fly under the Social Medicine banner. So the name is not precise. It is, however, more than adequate to denote a legacy of important endeavors, and fitting to designate a set of activities and purposes central to the larger aims of the School of Medicine and the University.

Yet there is more. Beyond the history and current functions, our name bespeaks the continuing need for bridging scientific medicine and its achievements with the larger society. As such, "Social Medicine" signals not a political persuasion about medicine, but a convergence of "social" and "medicine." The social world is one which we all share, a commons, a world which increasingly shapes and is shaped by the practice of medicine. Social Medicine is an institutionalized reminder of the power of these forces and of the stake we have in understanding them. Both functionally and symbolically, Social Medicine is a confluence of the concerns of medicine with the larger concerns of society. Fittingly, our core faculty number only 11, but the extended teaching and research faculty number well over 50.

Working from a solid base of research and service, Social Medicine will need to grow and adjust to train physicians to function and flourish in a changing social environment. Paradoxically, the departmental name has been shortened at a time of growth and extension in our faculty, research and teaching programs. The simplification actually signals a renewed commitment to understand and educate physicians about the complex medicine and society nexus.

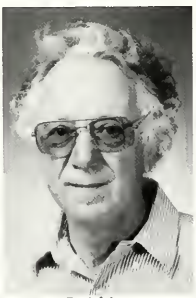
New inductees in the John B. Graham Student Research Society with Drs. Rosenberg, Ralph R. Landes and Bondurant.

News Briefs

New Genetic Laboratories Established at Chapel Hill

A major new genetic research initiative has been launched at UNC-CH with the recruitment of top scientists from the Universities of Wisconsin and Chicago.

Medical School Dean Stuart Bondurant said new laboratories at Chapel Hill will be directed by Oliver Smithies, Ph.D., professor of pathology, formerly of the University of Wisconsin. Other scientists in the group include Nobuyo Maeda, Ph.D., also from Wisconsin, and former University of Chicago researcher Rosann Farber, Ph.D. Both are associate professors of pathology. The scientists will be based in the medical school's Pathology Department and affiliated with the University's Program in Molecular Biology and Biotechnology. The groups also expect to work closely with the North Carolina Biotechnology Center in Research Triangle Park.



Smithies

When Smithies' laboratory becomes fully operational, more than 20 researchers and technicians will be involved in medical genetics research at the School of Medicine.

"I am confident that Drs. Smithies, Maeda and Farber, each an eminent scientist, will strengthen and extend our research and teaching programs in the field of genetics, which has become central to much of biology and medicine," Bondurant said.

Marshall Edgell, founder and former director of the UNC Program in Molecular Biology and Biotechnology, called Smithies' appointment "...a nationally noticed event. Establishment of this laboratory at UNC-Chapel Hill is already attracting national and international attention in the scientific community."

Farber

Smithies' work includes development of new animal strains to model a number of human diseases, including sickle cell anemia and Alzheimer's disease.

His research has application to virtually any disease whose genetic basis is partially understood, said Edgell.

"One of the things Smithies has already begun that will be of tremendous importance to existing programs here is his work on an animal model for cystic fibrosis. This could lead to important therapies for the disease—both genetically and through drugs—to lessen the consequences of the defective gene."

Maeda

Maeda's work has involved development of a hamster model for atherosclerosis, based on a recent discovery at Wisconsin of the gene for the disease. Farber's research is related to the genetics of leukemia. She will also work in the Division of Laboratory Medicine to apply the techniques of molecular genetics to clinical laboratory genetics.

A Salute To Our Donors

With the approach of its 40th anniversary, the Medical Foundation of North Carolina, Inc. reflects with pride on its years of support to the School of Medicine and to the Medical Center at the University of North Carolina at Chapel Hill. Through the generosity of medical alumni, hospital board members, concerned individuals, Co-Founders Club members and responsive foundations and corporations, the Medical Foundation has had the opportunity to play a role in numerous efforts. Specifically, we have assisted in the financing of buildings and facilities, the funding of numerous professorships, the establishment of scholarship and loan programs and the underwriting of important research programs. For the fiscal year ending June 30, 1988, the tradition of strong support for the Medical Center continued.

While the number of contributions decreased slightly, donations increased in size by 12 percent over the previous year, totaling $3,420,482. Fifteen percent of this amount was generated through alumni support, which continues to help sustain programs at the Medical Center.

We dedicate this Honor Roll to all those who continue so generously to support the School of Medicine and the Medical Center.

Everett R. Nordstrom
Executive Director
Medical Foundation of North Carolina, Inc.

Donors and the programs to which they have contributed appear on the following pages. All medical alumni donors are arranged by class, while the roster for friends and corporations/foundations is listed alphabetically. Following the name of each donor is an abbreviation of the program or programs to which contributions were made. Program abbreviations are: Loyalty Fund (LF), Co-Founders Club (CO) and Special Programs (SP).

The Loyalty Fund is the sole means of support for the Medical Alumni Association. Contributors to the Fund provide unrestricted monies for student scholarships and programs, publication of the *Medical Alumni Bulletin* and association activities such as Alumni Weekend.

The Co-Founders Club is an unrestricted gift club whose members support vital projects of the School of Medicine through unrestricted annual gifts of $1,000 or more.

The Special Programs category includes donations that support a variety of endeavors, such as the Jaycee Burn Center, the Lineberger Cancer Research Center, the UNC Multipurpose Arthritis Center, scholarships and so forth.

In compiling the Honor Roll, the Medical Foundation Office has made every effort to ensure accuracy. If errors or omissions have occurred, we apologize in advance.

The editors extend special thanks to Jacqueline Morris of the Medical Foundation office, who compiled this list.

(Photos appearing in this section are from the 1988 Whitehead Medical Society Christmas party, and were taken by Chapel Hill photographer Dan Crawford.)

Honor Roll Alumni

CLASS OF 1917
Frank B. Marsh, Salisbury SP
R.G. Wilson, Edisto Island, SC LF

CLASS OF 1918
Russell O. Lyday, Greensboro LF

CLASS OF 1919
Kenneth B. Geddie, DSA '73, High Point LF

CLASS OF 1927
John S. Rhodes, DSA '63, Raleigh SP

CLASS OF 1928
Merle D. Bonner, DSA '55, Greensboro CO SP
Zack D. Owens, Elizabeth City CO
Charles W. Robinson, Jr., Charlotte SP
S. Glenn Wilson, Sr., Angier LF

CLASS OF 1929
Alexander C. Dick, Chestertown, MD SP
Harry L. Farrell, Philadelphia, PA LF
David A. Young, DSA '84, Raleigh LF

CLASS OF 1931
Albert M. Barnhardt, Kannapolis SP
William H. Flythe, High Point SP
Ralph B. Garrison, Hamlet SP
William S. Wall, Rocky Mount CO SP

CLASS OF 1932
Alfred F. Hammond, Jr., New Bern LF
A. Eugene Knoefel, Jr., Black Mountain LF
Robert E. Stone, Evanston, IL LF
Richard H. Whitaker, Kernersville LF

CLASS OF 1933
Paul Rhodes, Lakewood, CO SP
Joseph R. Strauss, Washington, NY SP

CLASS OF 1934
Archie L. Barringer, DSA '73, Mount Pleasant LF
William L. Bundy, North Wilkesboro SP
June U. Gunter, Durham CO SP
Seny B. Lake, Canterbury, NH LF
Willis B. Mitchell, Hendersonville LF
William B. Patterson, Wailuku, HI LF

CLASS OF 1935
Eugene B. Cannon, Asheboro LF
Frank Edmondson, Jr., Asheboro CO
Julien H. Meyer, Sr., Roanoke, VA SP

CLASS OF 1936
Samuel B. Balis, South Orange, NJ LF
Leo Esbin, Wantagh, NY LF
Robert M. McMillan, Pinehurst SP
Annie L. Wilkerson, Raleigh CO SP

CLASS OF 1937
Elizabeth J. Dotterer, Sanford LF

CLASS OF 1938
Olivia Abernethy, Winston-Salem LF

CLASS OF 1939
Jesse Appel, East Hampton, NY LF
Jesse B. Caldwell, Jr., DSA '83, Gastonia SP
Henry Toole Clark, Jr., Chapel Hill CO SP
Max M. Novich, DSA '72, Perth Amboy, NJ CO SP
Thomas G. Thurston, II, Salisbury LF

CLASS OF 1940
Phil L. Barringer, Monroe LF
Inez W. Elrod, Huntersville LF
Walter Hilderman, Charlotte SP
H. Lee Large, Charlotte SP
David L. Pressly, Statesville LF
John Ranson, Charlotte SP

CLASS OF 1941
Asa R. Parham, High Point SP
C. Lowry Pressly, Charlotte SP
John B. Riggsbee, Alcoa, TN LF
Foyell P. Smith, Lexington CO
Frederick L. Tunick, Far Rockaway, NY LF

CLASS OF 1942
Jerry H. Allen, Jr., Springfield, MO LF
Frederick A. Blount, Winston-Salem LF
Alfred N. Costner, Johnson City, TN LF CO
James E. Davis, Durham SP
William E. Hoy, Jr., Ashland, KY LF SP
George W. Plonk, Kings Mountain LF

CLASS OF 1943
Joseph W. Baggett, Fayetteville CO
Julian T. Brantley, Greensboro SP
James B. Greenwood, Jr., Charlotte LF CO SP
William N. Hubbard, Jr., DSA '62, Hickory Corners, MI SP
David A. Rendleman, Jr., Salisbury SP
Frank R. Reynolds, DSA '78, Wilmington SP
Kenneth W. Wilkins, Goldsboro CO SP

CLASS OF 1944
Marcus Aderholdt, High Point SP
Robert J. Andrews, Wilmington SP
J. Vincent Arey, Concord LF
C. Fletcher Bailey, Elizabeth City LF
Earl E. Correll, Kannapolis LF SP
Robert W. Elwell, Ocean City, NJ LF
J. Stuart Gaul, Jr., Charlotte SP
Allen H. Lee, Selma LF
Carroll H. Lippard, Lynchburg, VA LF
William H. Meroney, III, DSA '69, Portsmouth, RI LF
S. Malone Parham, Henderson LF
George D. Penick, DSA '77, Iowa City, IA LF
Margaret C. Swanton, DSA '86, Clinton LF CO SP

CLASS OF 1945
G. Robert Clutts, Greensboro LF
J. Hicks Corey, Jr., Chattanooga, TN LF SP
Robert G. Fitzgerald, Jr., Roxboro CO
Hampton Hubbard, Clinton CO SP
Weldon H. Jordan, Fayetteville LF
Dean F. Winn, Jr., Woodland, CA SP

CLASS OF 1946
Edward G. Bond, Edenton CO
Luther W. Kelly, Jr., DSA '78, Charlotte LF CO
Robert Lackey, Charlotte SP
J. Edward McKinney, Chattanooga LF
William G. Sanford, Winston-Salem LF
William E. Sheely, Alexandria, VA LF
H. Frank Starr, Jr., Greensboro LF
David G. Stroup, East Point, GA SP
Allen D. Tate, Jr., Burlington CO SP
John E. Weyher, Topsail Beach SP
Thomas E. Whitaker, II, Greenville, SC SP
Roger M. Winborne, Roanoke, VA SP

CLASS OF 1947
Harry S. Anderson, Chattanooga, TN LF SP
Harry G. Walker, Statesville LF

CLASS OF 1948
William S. Cheek, Spartanburg, SC CO
Fred W. Ellis, DSA '86, Faculty LF
John E. Lyday, Greensboro SP
Julius A. MacKie, Bryn Mawr, PA LF
Richard Rankin, Mt. Holly SP
Daniel T. Young, Faculty LF

CLASS OF 1949
Hoke Bullard, Wilson SP
J. Dewey Dorsett, DSA '79, Charlotte SP
Edward B. McKenzie, Salisbury CO
Charles Peters, Cogan Station, PA SP
Aubrey D. Richardson, Baltimore, MD LF

CLASS OF 1950
Frederick O. Bowman, Jr., Riverdale, NY CO
W. Grimes Byerly, Hickory LF CO
A.J. Ellington, Burlington SP
Gordon R. Heath, Lakeland, FL LF
George Johnson, Jr., Faculty CO SP
Benjamin H. Josephson, Basking Ridge, NJ LF
John A. Kirkland, Wilson SP
John L. McCain, DSA '81, Wilson SP
Beer C. Troutman, Grifton SP

CLASS OF 1951
Luther L. Anthony, Jr., Gastonia LF SP
William B. Blythe, II, Faculty LF
Baxter H. Byerly, Tallahassee, FL SP
William A. Futch, Conyers, GA SP
Lawrence Hartley, Lake Jackson, TX SP
S. Vance Huffman, Elon College CO
Jack W. Wilkerson, Greenville LF

CLASS OF 1954
Leland S. Averett, Jr., High Point LF SP
Paul H. Brigman, Trinity LF SP
Malcolm Fleishman, Fayetteville CO
Cornelius T. Partrick, Washington LF
Robert L. Tomlinson, Jr., Wilson LF
Edward S. Williams, Jr., Durham LF

CLASS OF 1955
Henry Abernethy, Hickory CO
Julian S. Albergotti, Jr., Charlotte LF
Ralph E. Brooks, High Point SP
Walter E. Deyton, Danville, VA CO
Griggs C. Dickson, Charlotte SP
John W. Foust, DSA '88, Charlotte LF CO SP
James E. Glenn, Jacksonville, FL SP
James W. Hayes, III, Burlington CO
Charles L. Herring, Kinston SP
William D. Huffines, Faculty LF
Samuel G. Jenkins, Elizabeth City CO SP
Robert C. Jordan, Jr., Sanford LF
Samuel Joyner, Greensboro SP
William L. London, IV, Durham LF
J. Thaddeus Monroe, Jr., Chapel Hill LF SP
Oliver F. Roddey, Jr., Charlotte LF
C. William Rogers, Lebanon, TN LF
Mary M. Rood, Raleigh SP
Henry L. Stephenson, Jr., Washington SP
Robert Summerlin, Dublin CO
G. Reginald Tucker, Jr., Henderson LF
William J. Waddell, Prospect, KY LF

CLASS OF 1956
Richard A. Boyd, Statesville LF CO SP
Wade M. Brannan, Port Arthur, TX LF
Lee A. Clark, Jr., Wilson LF CO
John W. Deyton, Jr., Jacksonville CO
William E. Easterling, Jr., Faculty SP
John T. Evans, Chattanooga, TN LF CO
Charles W. Fowler, III, Orlando, FL LF
Alex F. Goley, Burlington SP
Francis W. Green, Albemarle CO
William R. Harris, Hickory CO
Malcolm McLean, Charlotte LF
J. Doyle Medders, Louisburg LF
Robert L. Murray, Roanoke, VA SP
Francis D. Pepper, Jr., Winston-Salem SP
James F. Richards, Orlando, FL SP
Willie R. Stafford, Greensboro SP
William B. Wood, Faculty LF CO SP

CLASS OF 1957
Robert S. Cline, Sanford LF
William P. Cornell, Phoenix, AZ LF
J.B. Glover, Wilson SP
Bennett A. Hayes, Jr., Fayetteville LF CO
Richard V. Liles, Jr., Albemarle CO
H. Maxwell Morrison, Southern Pines SP
James H. M. Thorp, Rocky Mount CO SP
Gerald M. Wagger, Palo Alto, CA LF
Benson R. Wilcox, Faculty CO SP
David A. Williams, Laurinburg CO

CLASS OF 1958
M. Paul Capp, Tucson, AZ LF
David B. Crosland, Concord CO SP
Luther S. Nelson, Amarillo, TX SP
T. Lane Ormand, Monroe LF
Charles W. Phillips, Gibsonville SP
John Winstead, Greenville SP

CLASS OF 1959
Cecil L. Barrier, Sr., Lawndale CO
Robert C. Brown, Greensboro CO SP
D. Whitaker Davis, Wadesboro LF
Otis Fisher, Greensboro SP
Charles F. Gilbert, Greenville LF SP
Joel S. Goodwin, Salisbury LF CO
Robert L. Green, Winston-Salem CO
O. James Hart, Jr., Winston-Salem LF
James A. Kiley, Kalispell, MT LF
Robert P. Linker, Charleston, SC SP
P.M. Moore, Jr., Washington CO
Wade Russell Rowland, Greenville, SC SP
Julian W. Selig, Jr., Elizabeth City LF SP
Martha Sharpless, Greensboro CO SP
Shahane R. Taylor, Jr., Greensboro CO SP
Charles E. Trado, Jr., Hickory LF
Robert G. Wilson, Prescott, AZ SP
Thomas Wynne, Greenville, SC SP

CLASS OF 1960
William B. Abernethy, Jr., Gastonia SP
Sellers L. Crisp, Greenville CO SP
J. Thomas Fox, Jr., Charlotte CO
Robert H. Hackler, III, Richmond, VA LF
James R. Harper, Faculty LF
G. Wyckliffe Hoffler, Titusville, FL LF
E. Carwile LeRoy, DSA '88, Charleston, SC SP
James Marlowe, High Point CO
J. Gray McAllister, III, Chapel Hill LF
Robert B. Payne, Matthews SP
Elizabeth V. Raft, Durham LF
Robert F. Sloop, Jr., Wilson SP
Elliot Solomon, Scarsdale, NY CO
Anna G. Strickland, Baltimore, MD LF
John C. Tayloe, Jr., New Bern CO SP
Burt Veazy, Sarasota, FL SP
John A. Young, Charlotte SP

CLASS OF 1961

Benjamin Garrou, Valdese — SP
John C. Graham, Elizabeth City — SP
Richard W. Hudson, Bayboro — CO
Louie L. Patseavouras, Greensboro — SP
W. Ray Samuels, Charlotte — CO
Edward A. Sharpless, Greensboro — CO SP
W. Ferrell Shuford, Jr., Wilmington — LF SP
Jerry E. Smith, Southern Pines — CO
Joshua Tayloe, Washington — LF
Donn Allison Wells, Fort Lauderdale, FL — SP

CLASS OF 1962

Lawrence M. Cutchin, Tarboro — SP
Frederick O. Hamrick, III, Lynchburg, VA — LF
Charles M. Hicks, Wilmington — SP
Kenny J. Morris, Wilmington — SP
William A. Nebel, Chapel Hill — CO SP
John F. Rhodes, Raleigh — SP
Lambros C. Rigas, Rome, GA — LF CO SP
A.C. Withers, Drexel — CO
Judith S. Yongue, Greenville — SP

CLASS OF 1963

William P. Algary, Greenville, SC — LF CO
Neil C. Bender, Pollocksville — CO
Bruce Caldwell, Clinton — SP
Robert J. Cowan, Winston-Salem — LF
John W. Dalton, Jr., Santa Monica, CA — LF
William B. Deal, DSA '79, Gainesville, FL — LF
Ira M. Hardy, II, Greenville — SP
W. Bryan Latham, Coral Gables, FL — CO SP
Charles Loftin, Roanoke, VA — SP
Eugene W. Pate, Kinston — SP
Douglas Ritch, Charlotte — SP
Charles J. Sawyer, III, Ahoskie — LF
Samuel E. Scott, Burlington — SP
Richard W. Shermer, Faculty — LF
David Sillmon, Greensboro — SP
Jerry A. Smith, Memphis, TN — SP
Jack Welch, Greenville — SP
James G. White, Ormond Beach, FL — LF

CLASS OF 1964

Rudolf Albert, Roanoke, VA — LF SP
John N. Beard, Charlotte — SP
Bruce Berryhill, Charlotte — SP
Roy L. Curry, Jr., San Francisco, CA — LF
G. Patrick Henderson, Jr., Pinehurst — SP
D. Charles Hunsinger, Springhill, LA — LF
Jack Koontz, Kinston — SP
Robert L. Maudlin, Gainesville, FL — SP
Murphy F. McGirt, Kinston — SP
Robert J. Pierce, Jr., Hickory — LF
Robert E. Price, Jr., Chapel Hill — SP
Frank Sabiston, Jr., Kinston — SP
C. Robert Wheeliss, Jr., Baltimore, MD — LF CO

CLASS OF 1965

Hal F. Collier, Atlanta, GA — SP
Takey Crist, Jacksonville — CO SP
Edgar G. Gallagher, Jr., Jacksonville — LF
James A. Gaskins, Jr., Clearwater, FL — SP
Charles P. Graham, Topeka, KS — SP
Joe P. Hurt, Sylva — CO SP
Robert T. Kindley, Fort Walton Beach, FL — LF
Gordon B. LeGrand, Raleigh — CO
Thomas L. Presson, Jr., Greensboro — CO SP
William F. Sayers, Winston-Salem — LF
Williamson B. Strum, La Jolla, CA — LF SP
Donald P. Whitley, Richmond, VA — CO
Willis H. Williams, Atlanta, GA — SP

CLASS OF 1966

J. Curtis Abell, Statesville — SP
Robert H. Bilbro, Raleigh — SP
Paul L. Burroughs, Raleigh — CO SP
Nelson P. Davis, II, Wilson — SP
Philip C. Deaton, Greensboro — CO
Edgar Garrabrant, Raleigh — CO
Cyrus L. Gray, Tampa, FL — SP
Carol H. Hackett, Mercer Island, WA — LF
N. Neil Howell, Charlotte — SP
Roy V. Land, Jr., Annapolis — SP
Edgar McGee, Lexington, KY — SP
Peter L. Morris, Santa Barbara, CA — LF
Duncan Morton, Charlotte — SP
George M. Paddison, Durham — SP
Roy K. Pons, Medford, OR — SP
Robert E. Sevier, Greensboro — LF SP
J. Lewis Sigmon, Jr., Cornelius — LF SP
Walter F. Steele, Valdese — SP
E. Walker Stevens, Greensboro — SP
Donald A. Thomas, Hendersonville — LF
W. Hunter Vaughan, Steubenville, OH — LF

CLASS OF 1967

Frank W. Avery, Raleigh — CO
James H. Davenport, Wilmington — SP
R. Donald Garrison, Jacksonville — LF
Harvey J. Hamrick, Faculty — LF
Howard D. Homesley, Winston-Salem — LF
L. Fuller Honeycutt, Raleigh — CO SP
James D. Hundley, Wilmington — CO SP
William H. Jarman, Jr., Gastonia — SP
Frank Leak, Clinton — SP
Clifford Lewis, Wilmington — SP
R. Bernard McAdam, Hampton, VA — SP
W. Jason McDaniel, Jr., Raleigh — CO SP
Donald McQueen, Rock Hill, SC — SP
H. Richard Parker, Greensboro — SP
Gerald Pelletier, New Bern — CO
Albert L. Roper, Norfolk, VA — SP
Walter R. Sabiston, Kinston — LF
James H. Spruill, Jr., Jackson, TN — CO
Henry C. Thomason, Jr., Gastonia — LF CO SP
Benjamin K. Ward, Jr., Florence, SC — LF
Rhoderick T. Williams, Jr., Roanoke Rapids — CO

CLASS OF 1968

Joseph P. Archie, Jr., Raleigh — SP
Terry D. Golden, Atlanta, GA — SP
Joseph W. Griffin, Jr., Augusta, GA — SP
John L. Kirkland, III, Houston, TX — CO
R. Frank Lowry, Jr., Raleigh — LF
Craig Price, Raleigh — SP
David M. Rubin, Greensboro — LF SP
William S. Teachey, Virginia Beach, VA — SP
Jack G. Wall, Burlington — SP

CLASS OF 1969

H. Wallace Baird, Greensboro — CO SP
Edward H. Brenner, Freehold, NJ — LF
Paul E. Brown, Hickory — CO SP
Don C. Chaplin, Burlington — CO
William D. Clark, Houston — LF
Richard Keever, High Point — SP
Donald M. MacQueen, Wilmington — LF SP
Joseph D. Russell, Wilson — LF CO SP
James W. Snyder, Wilmington — SP

CLASS OF 1970

Charles Almond, Wilmington — SP
H. Clifford Baggett, Jr., Rocky Mount — LF
Jerry C. Bernstein, Raleigh — SP
Daniel L. Crocker, Rocky Mount — CO SP
H. Shelton Earp, III, Faculty — LF CO
Mary H. Edwards, Pittsburgh, PA — LF
Stephen Green, Hampton, VA — SP
Joseph M. Harmon, Charleston, SC — LF
Donald D. Howe, Gastonia — LF
Charles D. Lefler, Brevard — LF
Michael A. Moore, Danville, VA — LF
R. Kirby Primm, Wenatchee, WA — LF
David A. Rendleman, III, Raleigh — CO SP
James B. Sloan, Wilmington — LF
Charles E. Thompson, Rochelle, NY — SP
Edwin L. Walker, Littleton, CO — LF CO
William J. Weatherly, Greensboro — LF
H.G. Winfield, III, Hickory — SP
James E. Winslow, Roxboro — CO
John R. Zirkle, Jefferson City, TN — CO

CLASS OF 1971

Coleman Carter, Charlotte — SP
Mary K. Fulghum, Raleigh — LF
James S. Fulghum, III, Raleigh — SP
Joe Gaddy, Winston-Salem — SP
Walter R. Gammon, Faculty — SP
W. Randolph Grigg, Chapel Hill — LF
Michael B. Jenkins, Everett, WA — SP
Jonathan O. McLean, Charlotte — SP
Philip D. Meador, Jr., Henderson — CO SP
Cameron L. Smith, Greenville — SP
C. Langley Smith, Greenville — SP
John P. Surratt, Clinton — CO SP
George C. Venters, Raleigh — SP
William W. Webb, Jr., Salisbury — CO SP

CLASS OF 1972

Peter R. Bream, Jacksonville, FL — SP
Peter Chikes, Concord — SP
W. Andrew Cook, Houston, TX — LF
Walter B. Greene, Faculty — SP
Alger V. Hamrick, III, Raleigh — LF
John T. Henley, Jr., Fayetteville — LF
Joseph A. Jackson, Pilot Mountain — SP
Michael C. Jones, Hendersonville — LF
Bruce Lee Kilhstrom, Durham — CO
Howard Kroop, Woodbury, NJ — CO SP
William E. Long, Newton — LF
John T. Manning, Houston, TX — LF
Ronald J. Stanley, Boone — CO SP

CLASS OF 1973

Joseph E. Agsten, Kinston — SP
Stephen B. Billick, New York, NY — SP
Melvin Clayton, Murfreesboro — LF SP
Thomas R. Dempsey, Mobile, AL — SP
Elizabeth H. Jackson, Cumberland, MD — CO SP
F. Daniel Jackson, Cumberland, MD — CO SP
John C. Long, Winston-Salem — SP
Gary Niess, Charlotte — SP
David E. Sharp, Solon — LF
Susan S. Sherman, Englewood, CO — SP
Robert R. Walther, New York, NY — LF
William H. Whisnant, Bristol, TN — LF sp

CLASS OF 1974

Robert M. Alsup, Winston-Salem		SP
Charles Beasley, Kinston		SP
William E. Bowman, Greensboro		SP
Paul S. Camnitz, Greenville		SP
Charles D. Collins, Rockingham	LF	CO
William Cox, Winston-Salem		SP
Donna E. Frick, Chapel Hill	LF	
C. Norman Hurwitz, Hamilton, OH	LF	
Stephanie Kodack, Corpus Christi, TX		SP
Kenneth Kulp, Winston-Salem		SP
Frank H. Moretz, Asheville	LF	
Jan H. Postma, Spartanburg, SC	LF	SP
Thomas W. Powell, Concord	LF	
Robert D. Stratton, Erie, PA		SP
David E. Tart, Hickory		SP
David T. Tayloe, Jr., Goldsboro		SP
Kenneth H. Wilson, Durham	LF	

CLASS OF 1975

Cyril S. Dodge, Battle Ground, WA		SP
Frank B. Fondren, Mobile, AL		SP
Ernest Krug, III, Greenville, SC	LF	SP
David C. Lanier, Washington, DC		SP
Robert H. Lester, Gastonia		SP
Michael W. Meriwether, Bradenton, FL		SP
Henry N. Nelson, Melbourne, FL		SP
Marshall H. Odom, Jr., Cincinnati, OH	LF	CO
Joseph R. Pringle, Jr., Burlington	LF	
Mark M. Voglehut, Tallahassee, FL		SP

CLASS OF 1976

Warwick Aiken, III, Gastonia	LF	SP
Janet C. Aiken, Gastonia		SP
D. Bryson Bateman, Goldsboro		SP
Martin F. Beals, Jr., Elizabeth City	LF	SP
Jack P. Byrd, Cleveland, TN		SP
Kathleen Gallagher, Charlotte		CO SP
Gary H. Greenspan, Dunedin, FL		SP
William L. Isley, Overland Park, KS	LF	
David Jacobs, Gastonia		SP
Ross S. Lynch, Columbia, SC		SP
Thomas C. Markham, Norfolk, VA		SP
John McMurray, Charlotte		SP
E. Paul Nance, Jr., Nashville, TN	LF	
David B. Neeland, Montgomery, AL		SP
Douglas C. Privette, Greenville	LF	
Sheldon M. Retchin, Richmond, VA	LF	
Rufus H. Temple, Jr., Wilmington	LF	SP

CLASS OF 1977

Randy S. Ellis, Smithsburg, MD		SP
Louis M. Perlmutt, Faculty	LF	
Michael L. Pool, Knoxville, TN	LF	SP
Catherine M. Radovich, Fort Defiance, AZ		SP
Samuel T. Selden, Chesapeake, VA	LF	
Sally F. Shu, Kingwood, TX	LF	

CLASS OF 1978

Richard Agress, Mercer Island, WA		
Michael C. Alston, Mufreesboro	LF	
William L. Bell, Robbins	LF	SP
Paul W. Coughlin, High Point	LF	SP
John D. Davis, Jr., Blowing Rock		CO
Susan D. Foreman, Greenville	LF	
Jeffrey A. Margolis, Clinton		SP
David C. Powell, Raleigh	LF	
Richard L. Rumley, Greenville	LF	
Peter A. Schlesinger, Roseville, MN	LF	

CLASS OF 1979

Carla S. Alexander, Baltimore, MD		SP
Charles H. Barrier, Birmingham, AL	LF	
Allen R. Edwards, Statesville		SP
Charles E. Fayton, Virginia Beach, VA	LF	
Thomas R. Hinson, Jr., Winston-Salem	LF	
John C. Koomen, Nashville, TN	LF	
John M. Lafferty, Valdese		SP
Darlyne Menscer, Charlotte	LF	
James G. Peden, Jr., Greenville	LF	
Charles N. Reed, Hickory	LF	
Frances R. Thomas, Chicago, IL	LF	
Paul A. Vadnais, Charlotte	LF	
John M. Westafer, Gulf Breeze, FL		SP
Mack W. White, Charlotte		SP

CLASS OF 1980

Edward H. Bertram, III, Charlottesville, VA	LF	
Marcus E. Carr, Jr., Richmond, VA		SP
Clarence O. Ellis, Chapel Hill		SP
David D. Gutterman, Iowa City, IA	LF	
Sandra K. Haigler, Lexington, KY	LF	
Kenneth E. Hollingsworth, Lexington Park, MD		SP
K.C. Kalterborn, Salt Lake City, UT		SP
Thomas H. Lineberger, Aberdeen		SP
Steven K. McCombs, Faculty	LF	
Lyle S. Saltzman, Melbourne, FL		SP
Walter Wright, Kinston		SP

CLASS OF 1981

Rebecca I. Ayres, Roswell, GA	LF	
David M. Cowherd, Pinehurst		SP
William V. Cuthrell, Winston-Salem	LF	
Laura J. D'Angelo, Nashville, TN		SP
Deborah H. Davis, Auburn, WA		SP
David M. Deitz, Portland, OR	LF	
David K. Harper, Concord	LF	
Thomas S. Kaluzynski, Burnsville	LF	
Garland C. King, Franklin	LF	
Alix J. Lovitz, Encino, CA	LF	
Jane E. Lysko, Asheville	LF	
Sandra Ann Maass-Robinson, East Point, GA		SP
John R. Mangum, Sanford	LF	
John T. Newton, Clinton		SP
Larry Nickens, Goldsboro		SP
Herbert O. Phillips, IV, Chapel Hill		SP
Edward T. Plyler, Morganton	LF	SP
Deborah D. Singley, Auburn, WA		SP
David L. Spivey, Wilmington		SP
Ronald M. Walters, Whiteville	LF	
James D. Whinna, Monroe	LF	
Roy Whitaker, Jr., San Antonio, TX	LF	

CLASS OF 1982

Joseph L. Albright, Jr., Arlington, VA	LF	
David W. Cash, Statesville	LF	
Reese H. Clark, San Antonio, TX	LF	
Lawrence M. Fleishman, Charlotte		SP
Timothy O. Jenkins, Concord		SP
Beverly N. Jones, III, New York, NY		SP
Richard Mann, Chapel Hill		SP
Hal D. Safrit, Durham		SP
Jennifer C. Schaal, Greensboro	LF	
Eric D. Van Tassel, Asheville	LF	
Fred H. Wilson, Greensboro	LF	
Wayne E. Young, Wheelersburg, OH		SP

CLASS OF 1983

William F. Alexander, Birmingham, AL		CO SP
Ann Archer, Washington, DC		SP
Mary Bartels, Hanover, NH		SP
John W. Bartlett, Chapel Hill		SP
James A. Bryan, III, Charlottesville, VA		SP
Pat Chappel Bryan, Charlottesville, VA		SP
Donald W. Carringer, Crossnore		SP
Vincent Cheek, Greensboro		SP
Douglas W. Clark, Chapel Hill		SP
Robert C. Clements, Oakland, CA		SP
Ronald W. Cottle, Whiteville		SP
Thomas C. Darrell, Lake Waccamaw	LF	
Mary Anne Dooley, Westborough, MA		SP
Kevin O. Easley, Charlottesville, VA	LF	
Gary L. Fink, Charlotte		SP
Michael B. Fischer, Glastonbury, CT		SP
Mary L. Forehand, Winston-Salem		SP
Doug Hinson, Washington, DC		SP
Mark W. Jacokes, Miami, FL		SP
Christopher G. Koeppl, Rhinelander, WI		SP
Alan Kopin, Wellesley, MA		SP
Peter J. Larson, Chapel Hill	LF	
Dianne Smith Litaker, Chapel Hill		SP
Frank Maddux, Pittsboro		SP
Paula F. Miller, Greensboro		SP
Paul Molina, Chapel Hill		SP
Mary Chester Morgan, Danville, PA		SP

Sally A. Nicks, Little Rock, AR SP
C. Michael Nicks, Little Rock, AR SP
James C. Osborne, Iowa City, IA SP
Carlos J. Page, Baltimore, MD SP
Catherine Parrish, Baltimore, MD SP
Joan T. Perry, Kinston SP
Jackie N. Saleeby, Savannah, GA SP
George A. Schary, Chamblee, GA LF
Gail L. Shaw, Rockville, MD LF
Paula Y. Smith, Raleigh SP
Claudia Svara, Chapel Hill SP
Gregory A. Underwood, Denver, CO SP
Peter R. Watson, North Augusta SP
Louis Wesley, Rochester, NY SP
John H. Williams, Raleigh LF SP
Lawrence Wyner, Pittsburgh, PA SP
Dianne L. Zwicke, Milwaukee, WI SP

CLASS OF 1984

James P. Alexander, Jr., Chapel Hill SP
Ronald P. Hargrave, Rock Hill, SC LF
Sarah S. Kratz, Raleigh SP
Robert P. Lineberger, Brookline, MA LF
Dugan Maddux, Pittsboro SP
John C. Mahler, New York, NY LF
Richard G. Saleeby, Savannah, GA SP
Paul W. Sasser, Eden LF
Thomas Spangler, Burlington SP
Paul E. Viser, Whitesburg, KY LF SP

CLASS OF 1985

Robert L. Browning, Jr., Richardson, TX LF
Leslie A. Bunce, Rochester, NY LF
Laura L. Crow, Chapel Hill LF
Susan D. Hunt, Stamford, CT LF
Theodore C. Kerner, Jr., Nashville, TN LF
Patricia A. Michael, Redwood City, CA SP
Albert J. Osbahr, III, Huntington, WV LF
McCrae S. Smith, Chapel Hill SP

CLASS OF 1986

Robyn L. Stacy-Humphries, Washington, DC LF

CLASS OF 1987

R. Lee Jobe, Charlotte LF

FORMER HOUSESTAFF

Jerome H. Abramson, Chattanooga SP
Simeon H. Adams, Gastonia CO SP
Richard Andringa, Greensboro SP
William E. Bakewell, Jr., Hillsborough SP
A. John Bambara, Bridgewater, NJ LF
Samuel L. Banks, Chattanooga, TN CO SP
Lee R. Berkowitz, Faculty SP
John Berry, Jr., Kinston SP
Robert S. Boger, Lake Forest, IL LF
Robert A. Briggaman, Faculty CO SP
Edwin L. Bryan, Greensboro SP
James A. Bryan, II, Faculty SP
Deborah Burke, Chapel Hill SP
James H. Butler, Winston-Salem SP
John A. Cross, Jr., Newport News, VA CO SP
Frederick G. Dalldorf, Faculty SP
Michael F. Durfee, Raleigh LF
David Fajgenbaum, Raleigh CO SP
Sharon M. Foster, Raleigh LF
Don A. Gabriel, Faculty SP
Joseph J. Gerdes, Charlotte SP
Daniel Gottovi, Wilmington SP
Steven Grubb, Hillsborough SP
Jagmohan D. Gupta, Goldsboro SP
Richard R. Henderson, Elon College CO SP
Harold N. Jacklin, Greensboro LF
Ali Jarrahi, Winston-Salem LF
Larry G. Johnson, Chapel Hill SP
John E. Keith, Spartanburg, SC CO SP
W. Rick Lambeth, Durham SP
J.E.T. Laningham, Pinehurst SP
Cheryl F. McCartney, Faculty SP
Benson McCutcheon, Jr., Durham CO SP
John L. Monroe, DSA '62, Pinehurst CO
James J. Murphy, Arden SP
Charles Nance, Wilmington SP
Henry P. Nathan, Clyde SP
Eugene Orringer, Faculty SP
George H. Pierson, Greensboro SP
Isadore M. Pike, Asheville SP
Elliot M. Puritz, St. James, NY CO SP
Harold R. Roberts, Faculty SP
Desmond K. Runyan, Faculty LF
Luther Sappenfield, Fayetteville CO SP
Harry L. Sauers, Belleair, FL LF
Roland E. Schmidt, Chapel Hill SP
John J. Solic, State College, PA LF
Ernest B. Spangler, DSA '85, Greensboro CO
George K. Summer, Faculty SP
Stuart Tafeen, Greensboro CO SP
Louis Underwood, Faculty SP
Richard I. Walker, Faculty SP
Charles I. Woods, Chapel Hill SP
Peter R. Young, Greensboro CO SP

MEDICAL ALLIED HEALTH PROFESSIONS

Pamela M. Bimbo, CMT '76, Asheboro SP
Allison H. Hoffman, CMT '80, Charlotte SP
Margaret W. La Manna, CMT '77, Shaker Heights, OH SP
Margaret B. McLean, CMT '78, Old Hickory, TN SP
Nell N. Pressley, CMT '75, Liburn, GA SP
Sandra R. Sessions, CMT '77, Carrboro SP
Pamela P. Stubbs, CMT '60, Fallbrook, CA SP
Janet Steelman Thomasson, CMT '78, Lewisville SP
Geraldine H. Welborn, BSMT '47, Lexington SP
Mary Caffey Wilkins, BSMT '65, Greenville, SC SP

Honor Roll Friends

Mrs. Sarah Abernethy, Gastonia SP
Ms. Betty V. Adams, Stuart, FL SP
Ms. Sarah C. Adams SP
Ms. Wendy Adams, Leland SP
Ms. Windy and Mr. Tim Batten Adams, Durham SP
Mrs. M. Aderholdt, High Point SP
Ms. Mary Margaret Agress, Mercer Island, WA SP
Mrs. J.E. Agsten, Kinston SP
Mrs. E.J. Albergotti, Charlotte SP
Mr. and Mrs. Bryant T. Aldridge, Rocky Mount SP
Mr. and Mrs. G. Irvin Aldridge, Manteo SP
Mr. C. Heath Alexander, Charlotte SP
Mrs. James P. Alexander, Charlotte SP
Ms. Thomasina Alexander, White Plains, NY SP
Mr. and Mrs. H.D. Alexius, Wilmington SP
Mr. William F. Algary, Asheville CO SP
Mr. and Mrs. Jerry Allen, Elizabeth City SP
Ms. Josephine Z. Allen, Smithfield SP
Ms. Patricia B. Allen, Richmond, VA LF
Mrs. W.A. Allen, III, Farmville SP
Mrs. Charles Almond, Wilmington SP
Mr. and Mrs. F. Howard Alston, Durham SP
Mr. and Mrs. W.J. Alston, Henderson SP
Mrs. Robert M. Alsup, Winston Salem SP
Ms. Ellen Anderson, Banner Elk SP
Mr. Esley O. Anderson, Jr., DSA '82, Charlotte CO SP
Ms. Joyce W. Anderson, New Bern SP
Mrs. Margaret Anderson, Chattanooga SP
Mr. and Mrs. William G. Anderson, Charlotte SP
Ms. Beverly L. Andrews, Mableton, GA SP
Mrs. Carwile Andrews, Wilmington SP
Mr. and Mrs. Harold K. Andrews, Gastonia SP
Mrs. Mary L. Andrews, Wilmington SP
Mrs. Robert Andrews, Wilmington SP
Mrs. Richard Andringa, Greensboro SP
Anonymous SP
Mr. and Mrs. Bonneau Ansley, Atlanta, GA SP
Mr. and Mrs. Shepard Ansley, Atlanta, GA SP
Mrs. Nan Anthony, Gastonia SP
Miss Mary A. Antley, Morganton SP
Mr. Richard Antonucci, Knoxville SP
Mrs. Vincent Arey, Concord SP
Ms. Elizabeth Armfield, Greensboro CO
Ms. Jane Armfield, DSA '81, Greenshoro CO SP
Dr. and Mrs. M.D. Arnold, Valdese SP
Dr. James W. Asaph, Portland, OR SP
Mr. and Mrs. Leland G. Atkins, Charlotte SP
Mrs. Phyllis S. Atwell, Carrboro SP
Mr. and Mrs. Samuel Auerbach, Rosedale, NY SP
Mrs. Carolyn Ausley, Sanford SP
Mr. and Mrs. Edward Austin, Elizabeth City SP
Dr. William E. Austin, Winston-Salem SP
Mrs. Leland Averett, High Point SP
Mrs. August W. Aydlett, Elizabeth City SP
Mr. N.E. Aydlett, Elizabeth City SP
Mr. and Mrs. Nathan M. Ayers, Greensboro CO SP
Mrs. Dollie H. Badgett, Oxford SP
Mrs. Eliza R. Bagby, Charlotte SP
Mrs. Anne Bailey, Shelby CO SP
Mr. and Mrs. Donald Bailey, Greenville SP
Mr. and Mrs. F.H. Bailey, New Bern SP
Mr. Hoyt Bailey, Shelby SP
Mr. J. Ruffin Bailey, Raleigh SP
Dr. and Mrs. Clifford Bair, Chapel Hill SP
Dr. H. Haynes Baird, Charlotte CO
Mrs. H. Wallace Baird, Greensboro SP
Mr. and Mrs. "Bill" Baker, Elizabeth City SP
Dr. Edgar D. Baker, Raleigh SP
Mr. and Mrs. Gerald Baker, Valdese SP
Mr. Paul M. Baker, Sr., Siler City SP
Mr. W. Marvin Baker, Williamston SP
Mr. Albert L. Baldwin, Dunwoody, GA LF
Mr. Edward M. Baldwin, Raleigh SP
Mr. and Mrs. Ned Ball, Portland, OR SP
Dr. Raymond C. Ball, Jr., Morehead City SP
Dr. Harry H. Ballard, New Bern LF
Mrs. Dana B. Banks, Chattanooga, TN CO SP
Mr. and Mrs. James F. Barden, Jr., Weldon SP
Judge and Mrs. Napolean Barefoot, Wilmington SP
Dr. Key L. Barkley, Raleigh SP
Dr. Thomas B. Barnett, Faculty SP
Mr. and Mrs. William T. Barnett, Henderson SP
Mrs. Albert E. Barnhardt, Kannapolis SP
Mr. J.C. Barnhardt, Jr., Mount Airy CO
Ms Ruth Barnhardt, Asheville SP

Mr. and Mrs. H. Leman Barnhill, Williamston SP
Mr. and Mrs. Robert Barnhill, Tarboro SP
Mrs. Mary Lou Barrier, Lawndale CO
Mrs. Archie L. Barringer, Mount Pleasant SP
Mrs. Ralph Basnight, Ahoskie SP
Dr. and Mrs. Robert C. Bast, Jr., Chapel Hill SP
Mr. Harold H. Bate, New Bern SP
Mr. and Mrs. John L. Bate, Jr., Wrightsville Beach SP
Ms. Marilyn Bateman, Goldsboro SP
Mr. and Mrs. F. Gordon Battle, Chapel Hill SP
Mr. J.W. Baugher, Jr., Pinehurst SP
Mr. and Mrs. E.T. Baysden, Jr., Wilmington SP
Mr. Lamar Beach, Sanford SP
Mr. and Mrs. Norton Beach, Chapel Hill SP
Mrs. John N. Beard, Charlotte SP
Mr. and Mrs. Jack Bearden, Raleigh SP
Mrs. Charles Beasley, Kinston SP
Mr. and Mrs. Wood Beasley, Colerain SP
Ms. Carole A. Beauchamp, Durham SP
Mr. and Mrs. David Beaver, Albemarle SP
Mr. Allen V. Beck, Jr., Burlington SP
Mr. John W. Becton, Chapel Hill LF
Mr. Harvey Beech, Kinston SP
Mr. and Mrs. William Beery, III, Wilmington SP
Mr. John C. Bell, Jr., Roslyn, NY SP
Ms. Mae W. Bell, Rocky Mount SP
Mrs. William L. Bell, Robbins SP
Mrs. Mary Dale G. Bender, Pollocksville CO
Mr. Charles C. Benedict, Atlanta, GA SP
Mr. Thomas Benedict, Atlanta, GA SP
Mr. Bert L. Bennett, Jr., Winston-Salem SP
Hon. and Mrs. W. Tapley Bennett, Jr., Washington, DC SP
Mrs. Norman Bentley, Belmont SP
Mr. Eugene E. Berg, Lexington, SC SP
Mr. Charles Bergamini, Wilmington SP
Mr. and Mrs. Herman W. Bernard, High Point CO SP
Mr. Stephen A. Bernard, Chapel Hill SP
Mrs. Jerry C. Bernstein, Raleigh SP
N. Bernstein, Pensacola, FL SP
Mrs. John Berry, Jr., Kinston SP
Mrs. Joan Berryhill, Charlotte SP
Ms. Norma Berryhill, DSA '75, Chapel Hill SP
Ms. Marsha Bertholf, Charlottesville, VA SP
Mr. Marcellus J. Best, Goldsboro SP
Mr. and Mrs. Robert A. Betts, Jr., Hendersonville SP
Mr. P. Bhotivihok, Kinston SP
Mrs. P. Bhotivihok, Kinston SP
Mr. and Mrs. Joseph Bianco, Old Bridge, NJ SP
Mr. Everett Billingsley, Carrboro SP
Dr. Olin T. Binkley, Wake Forest SP
Ltc. Harvey L. Binns, III, Edenton SP
Mr. and Mrs. Mars Bishop, Barrington, RI SP
Mrs. James Bizzell, Goldsboro SP
Mr. and Mrs. W.F. Black, Greensboro SP
Mr. and Mrs. William M. Black, Raleigh SP
Mr. Hugh A. Blackman, Morganton SP
Mr. and Mrs. George S. Blackwelder, Jr., Hickory CO SP
Ms. Eliza L. Blades, Elizabeth City SP
Mrs. L.S. Blades, Jr., Elizabeth City SP
Mr. and Mrs. L.S. Blades, III, New Bern SP
Ms. Marie Blair, Wilson CO
Mr. and Mrs. R.G. Blair, Winston-Salem SP
Mr. and Mrs. Todd McL. Blair, Atlanta, GA SP
Dr. Stephen C. Blank, Dunwoody, GA SP

Dr. Philip M. Blatt, Wilmington, DE LF
Mr. Edward L. Bleynat, Valdese SP
Ms. Catherine Block, Chapel Hill SP
Mr. Norman E. Block, Jr., Chapel Hill CO SP
Mr. and Mrs. Frank Blocksidge, Chapel Hill SP
Mr. and Mrs. F. Leigh Blount, Bethel SP
Mrs. Florence T. Blount, Greenville SP
Mr. and Mrs. James D. Blount, Jr., Raleigh SP
Mr. and Mrs. Leighton Blount, Bethel SP
Mr. and Mrs. Ralph B. Blowe, Sr., Weldon SP
Mr. and Mrs. F. Jackson Blythe, Jr., Charlotte SP
Mr. William C. Boatwright, Morganton SP
Dr. William F. Bobzein, Rocky Mount SP
Mr. and Mrs. John F. Bogdan, Raleigh SP
Mrs. Annie K. Boggs, Richlands SP
Mr. Carl A. Boggs, Richlands SP
Mr. and Mrs. Daniel A. Boggs, Valdese SP
Mr. and Mrs. Eugene Bohi, High Point SP
Mrs. Vivian P. Bond, Edenton CO
Mrs. Peg Bondurant, Chapel Hill CO
Mr. and Mrs. Stuart Bondurant, Atlanta, GA SP
Dr. Stuart O. Bondurant, Jr., Faculty CO
Ms. Maureen M. Boner, Greensboro SP
Mr. and Mrs. William J. Boney, Jr., Wilmington SP
Mrs. Cam Boren Boone, Greensboro SP
Mr. and Mrs. Douglas Booth, Charlotte SP
Mr. and Mrs. Richard Booth, Charlotte SP
Mr. and Mrs. William C. Boren, III, Southern Pines SP
Ms. Margaret V. Bostick, Camden, SC SP
Ms. Betty T. Bouldin, Chapel Hill LF
Ms. Judith Frances Bounous, Elizabeth City SP
Mr. and Mrs. J. Melvin Bowen, Williamston SP
Mr. and Mrs. John Bowers, Elizabeth City SP
Dr. Watson A. Bowes, Jr., Faculty SP
Ms. Gay Bowman, Greensboro SP
Ms. Lisa Boyer, Peoria, IL SP
Mr. and Mrs. George W. Bradham, Greensboro SP
Mr. and Mrs. Jon P. Brady, Charlotte SP
Mr. T.B. and Ms. Elizabeth Brandon, Jr., Williamston SP
Ms. Betsy W. Brennan, Raleigh SP
Mr. Street Brewer, Charlotte SP
Dr. and Mrs. P. Brezicki, Valdese SP
Mrs. Irene Briggaman, Chapel Hill CO SP
Mr. Winston Bright, Rutherford College SP
Dr. and Mrs. Paul A. Brigman, Trinity CO
Mrs. Mary Briley, Charlotte SP
Mr. and Mrs. Clyde Brinkley, Valdese SP
Mr. James D. Brinkley, Valdese SP
Mr. John D. Brinkley, III, Hickory SP
Ms. Linda Brinkley, Valdese SP
Mr. and Mrs. Joe Brinn, Sanford SP
Mr. James L. Brinson, Elizabeth City SP
Dr. and Mrs. Lowell E. Brittain, Charlotte SP
Mr. E.D. Broadhurst, Jr., Greensboro SP
Mr. Leo Brody, Kinston CO
Ms. Myrtilla H. Brody, Kinston SP
Mr. Charles E. Brooks, Switzerland SP
Ms. Jane Brooks, High Point SP
Mr. and Mrs. Thorton Brooks, Greensboro SP
Mr. and Mrs. J. Melville Broughton, Jr., Raleigh SP
Mr. and Mrs. H.M. Browder, Jr., Weldon SP
Mr. and Mrs. Melton R. Brower, Asheboro SP
Mr. and Mrs. Carl B. Brown, Wilmington SP
Mr. and Mrs. Horace Brown, Valdese SP
Mrs. Jennifer Brown, Sanford SP
Mr. and Mrs. Milton Brown, III, Elizabeth City SP
Mr. Walter L. Brown, Jr., Raleigh SP
Mr. Howard Browne, III, Raleigh SP
Mr. and Mrs. Dave Bruce, Scotland Neck SP
Mrs. Edwin L. Bryan, Greensboro SP
Mr. and Mrs. Harry Bryant, Gastonia SP
Mrs. T.A. Buck, Weldon SP
Ms. Margaret H. Bucy, Fayetteville SP
Mr. and Mrs. Robert Bullock, Shelby SP

Mr. H. Benjamin Bunch, Raleigh SP
Mr. Max Burden, Williamston SP
Ms. Holly J. Burge, Chapel Hill SP
Ms. Maureen A. Burger, Pacifica, CA SP
Mr. Robert Norton Burleigh, Longwood, FL SP
Mr. and Mrs. Edward Burney, Valdese SP
Mr. Jack Burns, Valdese SP
Ms. Mary Elizabeth Burns, Boulder, CO SP
Mr. John W. Burress, Winston-Salem SP
Mr. and Mrs. L.R. Burris, Jr., Valdese SP
Ms. Anne C. Burwell, Sanford SP
Rev. and Mrs. James H. Bussell, Williamston SP
Ms. Emily M. Butler, Williamston SP
Mr. and Mrs. Richard Byers, Valdese SP
Mrs. Sadie Byrd, Sanford SP
Ms. Linda Cabot, Valdese SP
Mrs. Bruce Caldwell, Clinton SP
Mrs. Martha G. Caldwell, Gastonia SP
Mr. and Mrs. Scott C. Callaway, Elizabeth City SP
Ms. Abigail Cameron, Raleigh SP
Mr. and Mrs. Tom E. Cameron, Raleigh SP
Mr. and Mrs. William Cameron, Wilmington SP
Ms. Jill Camnitz, Greenville SP
Mrs. Hilton R. Campbell, Pinehurst SP
Ms. Jane R. Campbell, Helena, MT SP
Mr. and Mrs. Bruce Cannon, Valdese SP
Mr. and Mrs. James G. Cannon, Charlotte SP
Dr. Julian H. Capps, II, Corpus Christi, TX SP
Mr. and Mrs. Joseph Carlo, Pittsboro SP
Mr. William Carpenter, Raleigh SP
Mr. and Mrs. Albert G. Carr, Durham SP
Mr. George Watts Carr, Jr., Durham SP
Mr. and Mrs. Hugh E. Carr, Sanford SP
Mr. and Mrs. James D. Carr, Wilmington SP
Mr. and Mrs. Terrence Carraher, Sanford SP
Mrs. Elizabeth Scott Carrington, Burlington SP
Mrs. George Carrington, Burlington SP
Mr. and Mrs. Frank Carro, Old Bridge, NJ SP
Mr. Michael W. Carroll, Irvine, CA SP
Mr. and Mrs. J.M. Carstarphen, McAdanville SP
Ms. Jane Armstrong Carstarphen, Raleigh SP
Mr. and Mrs. William H. Carstarphen, Greensboro SP
Ms. Nancy Carter, Charlotte SP
Mr. and Mrs. Rex H. Carter, Roanoke Rapids SP
Mr. C.E. Caruso, Valdese SP
Mr. Carlton Caruso, Jr., Valdese SP
Ms. Drusilla M. Cathell, Raleigh SP
Mr. and Mrs. Fitz R. Caudle, Wrightsville Beach SP
Mr. and Mrs. Wade Leonard Cavin, Durham SP
Mr. and Mrs. George H.V. Cecil, Asheville SP
Mrs. George H. Chadwick, Jr., Wilmington SP
Ms. Joan M. Chambers, Menlo Park, CA SP
Mr. and Mrs. Bob Chapman, Charlotte SP
Dr. Hashmat Chaudry, Roanoke Rapids SP
Mr. James T. Cheatham, Greenville SP
Mrs. Vincent Cheek, Greensboro SP
Mr. and Mrs. Joe B. Cherry, Windsor SP
Mr. and Mrs. John Cherry, Jr., Jacksonville SP
Mr. Al R. Chesson, Jr., Williamston SP
Mr. and Mrs. Larry W. Chesson, Williamston SP
Mrs. Peter Chikes, Concord SP
Dr. Jack Childers, Baltimore, MD CO SP
Mr. John Trammell Church, Henderson SP
Mrs. Morton L. Church, Jr., Charlotte SP
Mr. and Mrs. Philip E. Church, Valdese SP
Mr. and Mrs. Walter Church, Valdese SP
Mrs. Harriet F. Chused, Kingston SP
Dr. Gabriel Cipau, Research Triangle Park SP
Mr. and Mrs. Arthur Clark, Durham SP
Mr. and Mrs. Edward B. Clark, Raleigh SP
Mr. and Mrs. J.T. Clark, Jr., Greenville SP
Mr. and Mrs. James W. Clark, Vaughn SP
Mr. and Mrs. Julian Clark, Jr., Charlotte SP
Ms. Louise P. Clark, Weldon SP
Mr. W.G. Clark, III, Tarboro SP
Mr. and Mrs. C. Lee Clarke, Goldsboro CO SP
Mr. and Mrs. Dean Clarke, Drexel SP
Mr. and Mrs. Marshall Clements, Durham SP
Mr. C. Douglas Cline, Rutherford College SP
Mr. and Mrs. Haywood Cochrane, Jr., Greensboro SP
Mr. and Mrs. L.I. Cohen, Sanford CO SP
Mr. and Mrs. Richard G. Coker, Hartsville, SC SP
Dr. Charles F. Colby, Greenwood, SC SP
Dr. William L. Coleman, Faculty SP
Mrs. William L. Coleman, Chapel Hill SP
Judge and Mrs. Robert A. Collier, Jr., Statesville SP
Mr. C. Jeffrey Compher, Raleigh SP
Mr. and Mrs. Howard B. Cone, Richmond, VA SP
Mr. Hall Conley, Marietta, GA SP
Mr. and Mrs. Frank H. Conner, Charlotte SP
Ms. Dottie K. Cook, Winston-Salem SP
Mr. and Mrs. R. Cameron Cooke, Greensboro SP
Mrs. Ivie Cooper, Bynum SP
Friends of Lewis P. Cooper, Bynum SP
Mr. and Mrs. W. Lee Cooper, Tarboro SP
Mr. and Mrs. J. William Copeland, Murfreesboro SP
Mrs. W.F. Coppage, Williamston SP
Ms. Mattye Corbett, Chapel Hill SP
Mrs. Ruby Corbitt, Oxford SP
Mr. and Mrs. Joseph Cordelia, Old Bridge, NJ SP
Mr. and Mrs. George H. Cornelson, Clinton, SC SP
Mrs. Donna Cornick, Chapel Hill SP
Dr. and Mrs. William Corpening, Granite Falls CO SP
Mrs. E. Eugene Correll, Kannapolis SP
Ms. Linda Cotter, Rohnert Park, CA SP
Mrs. Oran J. Cottle, Raleigh SP
Mrs. Else R. Couch, Chapel Hill SP
Mrs. Paul W. Coughlin, High Point SP
Mrs. Marion S. Covington, Greensboro SP
Ms. Debbie K. Cowan, Chapel Hill SP
Mr. and Mrs. William C. Cowdery, Durham CO SP
Mrs. Phyllis Cowell, Rocky Mount SP
Mr. and Mrs. Robert H. Cowen, Williamston SP
Mrs. D.M. Cowherd, Pinehurst SP
Mr. and Mrs. Albert W. Cowper, Kinston SP
Dr. George E. Cox, Skillman, NJ LF SP
Mrs. William F. Cox, Winston Salem SP
Mr. and Mrs. Wilson Cox, Broadway SP
Mr. and Mrs. T.C. Coxe, Jr., Darlington, SC SP
Mr. Thomas C. Coxe, III, Darlington, SC SP
Mr. and Mrs. Ben Cozart, Valdese SP
Mr. and Mrs. Sydnor M. Cozart, Wilson SP
Dr. Wiley H. Cozart, Fuquay-Varina SP
Mr. Murray B. Craven, Charlotte CO
Mrs. Adelaide Austell Craver, Shelby SP
Mr. Randy Gordon Crawford, Rocky Mount SP
Mr. and Mrs. Robert Creech, Raleigh SP
Mr. Nelson Crisp, Greenville SP
Mrs. Nelson B. Crisp, Greenville SP
Mr. Thomas W. Crockett, Williamston SP
Dr. and Mrs. Leo M. Croghan, Fayetteville SP
Dr. William J. Cromartie, Chapel Hill SP
Dr. and Mrs. D. Croom, Nebo SP
Mrs. Anne Crosland, Concord SP
Mr. and Mrs. John Crosland, Jr., Charlotte SP
Mrs. Lillian Crosland, Wilson SP
Ms. Maxine Crowther, Carlisle, MA SP
Mrs. Jane Toms Crudup, Tarboro SP
Mr. and Mrs. Calvin Crumb, Raleigh SP
Mr. and Mrs. Charles Crutchfield, Charlotte SP
Mr. and Mrs. Hugh Cullman, Rye, NY SP
Mr. Levin B. Culpepper, Elizabeth City SP
Mr. and Mrs. Henry Cunningham, Jr., Elizabeth City SP
Mr. John A. Cunningham, DSA '83, Charlotte SP
Dr. and Mrs. William A. Current, Gastonia SP
Mr. and Mrs. George Currie, Jr., Wilmington SP
Mr. and Mrs. Frank Currin, Oxford SP
Mr. and Mrs. Donald Curtis, Raleigh SP
Mrs. Ballard M. Cutchin, Whitakers SP
Mr. and Mrs. Richard L. Dalton, Winston-Salem SP
Mr. H.G. Dameron, Tabor City CO SP
Dr. and Mrs. T.B. Dameron, Jr., DSA '84, Raleigh SP
Mr. and Mrs. Terry F. Daniels, Elizabeth City SP
Ms. Lynn Darden, Newport SP
Ms. Donita K. Davenport, Mount Pleasant, MI SP
Dr. Ernest C. Davenport, Jr., Columbia Heights, MN SP
Ms. Ann Davis, Raleigh SP
Mr. and Mrs. D.R. Davis, Jr., Williamston SP
Ms. Debra K. Davis, Winston-Salem SP
Mr. E. Lawrence Davis, III, Winston Salem CO SP
Mrs. Edith Davis, Williamston SP
Ms. Elizabeth F. Davis, Raleigh SP
Mr. and Mrs. Gordon Davis, Chapel Hill CO SP
Dr. and Mrs. J. Davis, Burlington SP
Mr. Jack B. Davis, Burlington LF
Mr. and Mrs. James R. Davis, Henderson SP
Mr. and Mrs. Luther J. Davis, Jr., Washington SP
Mr. and Mrs. R.G.S. Davis, Henderson SP
Ms. Sandra P. Davis, Charlotte SP
Ms. Susan Peel Davis, Raleigh SP
Mr. T.H. Davis, Winston-Salem SP
Ms. Tanya V. Davis, Greensboro SP
Mr. and Mrs. William F. Davis, Morganton SP
Ms. Nancy F. Daw, Valdese SP
Mr. Arthur DeBerry, Durham SP
Mr. and Mrs. John DeFino, New Milford, NJ SP
Mr. and Mrs. Mahlon H. DeLoatch, Jr., Tarboro SP
Mr. and Mrs. Cort DeVoe, Raleigh SP
Mr. R. Michael Deal, Valdese SP
Dr. and Mrs. Pleasant P. Deaton, Valdese SP
Mr. and Mrs. Sam Decker, Black Mountain SP

Mr. and Mrs. William A. Dees, Jr., Goldsboro SP
Mr. C.J. Deitz, Belmont SP
Ms. Margaret L. Dellinger, Belmont SP
Mr. and Mrs. Gary Delp, Valdese SP
Mr. and Mrs. John F. Dengel, Jr., New Milford, NJ SP
Ms. Betty S. Denny, Chapel Hill SP
Dr. Floyd Denny, Faculty SP
Mr. and Mrs. Donald H. Denton, Jr., Charlotte SP
Mrs. Beverly Destefano, Reidsville SP
Mr. D. Devito, Hagerstown, MD SP
Mrs. Rita Dewey, Tarboro SP
Mr. Kinsley Van R. Dey, Chapel Hill SP
Dr. Frank A. DiBianca, Faculty SP
Mr. Frank D. DiLeo, Charlottesville, VA SP
Mr. Charley Dickey, Tallahassee, FL SP
Mr. and Mrs. Alan T. Dickson, Charlotte CO SP
Mrs. Betty Dickson, Charlotte SP
Dr. James R. Dineen, Wilmington CO SP
Mr. Hugh Dinkins, Yadkinville SP
Mr. and Mrs. George Potter Dixon, Elizabeth City SP
Mr. and Mrs. J. Robert Dixon, Blowing Rock SP
Mr. and Mrs. Lyman B. Dixon, Raleigh SP
Mr. and Mrs. Grover C. Dobbins, Raleigh SP
Ms. Susan C. Dodson, Franklinton SP
Mr. and Mrs. J. Barry Dominick, Charlotte SP
Mrs. Coyt Donnelly, Rutherford College SP
Mr. Gary Donnelly, Rutherford College SP
Mr. Grant L. Donnelly, Salisbury SP
Mrs. Alice Dorsett, Charlotte SP
Mr. Charles I. Dover, Shelby SP
Mr. Roddey Dowd, Charlotte SP
Mr. and Mrs. Donald Dowdee, Durham SP
Mrs. Byah Thomason Doxey, DSA '86, Fayetteville SP
Mr. Sanford Doxey, Jr., DSA '86, Wrightsville Beach SP
Ms. Ann Mary Doyle, Southern Pines SP
Mr. and Mrs. William Draper, Charlotte SP
Mr. and Mrs. Jimmy C. Draughn SP
Mr. and Mrs. Grady S. Duncan, Belmont SP
Mr. and Mrs. Hugh M. Duncan, Charlotte SP
Mrs. Julius A. Duncan, Charlotte SP
Mr. and Mrs. Harold Dunnagan, Charlotte SP
Mr. and Mrs. Rene A. Durand, Valdese SP
Mr. Michael Durbin, St. Joseph, MN SP
Mrs. Margaret Dusenbury, Wilmington SP
Mrs. Thomas L. Dysard, Jr., Statesville SP
Dr. and Mrs. Edward Eadie, Jr., Elizabeth City SP
Mr. and Mrs. Wilbur D. Easler, Carrboro SP
Dr. H.F. Easom, Wilson SP
Mr. Don Easterling, Raleigh SP
Dr. and Mrs. Charles E. Edrington, Sanford SP
Mr. and Mrs. B.W. Edwards, Jr., Hilton Head, SC SP
Mr. Edward F. Edwards, Charlotte SP
Mr. and Mrs. George Edwards, Raleigh SP
Dr. and Mrs. J.J. Elliott, Charlotte SP
Mr. Alpheus Palmer Ellis, Jr., Roanoke Rapids SP
Dr. B. Thomas Ellis, Shelby SP
Thomas F. Ellis, Raleigh SP
Mr. and Mrs. Bruce A. Elmore, Asheville SP
Mr. and Mrs. Donald Emerson, Rancho Palos Verdes, CA SP
Mr. Robert Allan Emken, Sr., Winston-Salem SP
Mr. John W.C. Entwistle, Jr., Charlotte CO
Dr. Ronald A. Epner, Cary SP

Mr. and Mrs. Stuart Epperson, Winston-Salem SP
Mr. and Mrs. George Erath, High Point SP
Mr. and Mrs. Mort Ershler, Greensboro SP
Dr. Mark M. Eule, Auburn SP
Dr. and Mrs. Darden J. Eure, Jr., Morehead City SP
Mr. and Mrs. C.J. Evans, Harrellsville SP
Mr. and Mrs. Charles D. Evans, Nags Head SP
Mr. D.A. Evans, Greenville SP
Mr. and Mrs. J. Michael Evans, Rocky Mount SP
Mrs. Oscar Ewing, Chapel Hill CO SP
Mrs. Nancy B. Faircloth, Raleigh SP
Mr. Henry J. Faison, Charlotte SP
Mrs. David M. Fajgenbaum, Raleigh CO SP
Mr. David C. Falk, Raleigh SP
Mr. Archer D. Farmer, Jr., Elizabeth City SP
Mr. and Mrs. Frank A. Farmer, Jr., Fincastle, VA SP
Mr. and Mrs. Lee B. Farmer, II, Norwood SP
Dr. Michael Faurest, Louisville, KY SP
Mr. and Mrs. M. Keith Fearing, Manteo SP
Mr. and Mrs. Marshall M. Feaster, Jr., Lake Toxaway CO
Mr. Howard Q. Ferguson, Randleman CO
Mrs. Mescal Ferguson, Randelman CO SP
Mr. and Mrs. L.E. Ferrell, Smithfield SP
Mr. and Mrs. Robert E. Ferrone, Raleigh SP
Mr. Lewis M. Fetterman, Clinton CO
Mrs. James Ficklen, Jr., Greenville SP
Dr. Robert Fincher, Jr., High Point SP
Mrs. Otis Fisher, Greensboro SP
Mr. and Mrs. Gerald Fitzgerald, Sanford SP
Mr. John D. Fleming, Smithfield SP
Mr. Robert Fletcher, Chapel Hill SP
Dr. Roy Flood, Mufreesboro SP
Mr. Roy D. Flood, Jr., Chapel Hill SP
Dr. and Mrs. John E. Flournoy, Kinston SP
Mrs. William H. Flythe, High Point SP
Ms. Joann L. Fogler, Wilmington SP
Mr. Herman E. Foltz, Winston-Salem SP
Ms. Lynn Fondren, Mobile, AL SP
Ms. Margaret Fontana, High Point SP
Miss Elizabeth Ford, Belmont SP
Mr. and Mrs. J. Paul Ford, Belmont SP
Mr. and Mrs. William W. Foreman, Elizabeth City SP
Mrs. Valworth Foscue, High Point CO SP
Mr. Jay A. Foss, Carmel, CA LF
Mr. and Mrs. Glen Foster, Fairport, NY SP
Mrs. John N. Foster, Jr., High Point SP
Mr. and Mrs. Richard Fountain, III, Raleigh SP
Mrs. Doris Foust, Charlotte SP
Mrs. Landon L. Fox, Charlotte CO
Mr. and Mrs. Stanley Fox, Oxford SP
Dr. James T. Frakes, Rockford, IL SP
Mr. and Mrs. J.E. Franklin, Valdese SP
Mr. and Mrs. Charles D. Frederick, III, Garner SP
Ms. Karen J. Freeman, Raleigh SP
Mrs. Richard M. Freeman, Opelika, AL SP
Mr. and Mrs. William H. Freeman, Winston-Salem SP
Mr. and Mrs. William Friday, Chapel Hill SP
Mr. Robert Friedman, Raleigh SP
Mrs. J.H.H. Froelich, Sr., High Point SP
Ms. Elizabeth P. Fuller, New Bern SP
Mr. and Mrs. Erwin Fuller, Greensboro SP
Mr. W.B.B. Fuller, Wilmington SP
Mr. and Mrs. Paul Fulton, Jr., Winston-Salem SP
Mr. and Mrs. J. Richard Futrell, Jr., Rocky Mount SP
Mrs. Joe E. Gaddy, Winston-Salem SP
W.G. and Frances A. Gaither, Jr., Elizabeth City SP
Mrs. Mary Elizabeth Gallagher, Raleigh SP
Dr. and Mrs. S.A. Gallardo, Goldsboro SP
Mr. and Mrs. Timothy N. Galliher, Chapel Hill SP
Mr. and Mrs. James B. Garland, Gastonia SP
Dr. Stuart J. Garner, Durham SP
Mr. and Mrs. C.M. Garrison, Valdese SP
Mr. and Mrs. John Garrison, Asheboro SP
Mr. M. Lee Garrison, Charlotte SP
Mrs. Benjamin Garrou, Valdese SP

Mr. and Mrs. Herbert N. Garrou, Valdese SP
Mrs. J. Edward Garrou, Valdese SP
Mr. and Mrs. Philip H. Garrou, Valdese SP
Mr. and Mrs. William E. Garwood, Haddonfield, NJ SP
Dr. D. Garza, Corpus Christi, TX SP
Mr. and Mrs. Gaskell, Charlotte SP
Mr. and Mrs. Spurgeon P. Gaskin, Atlanta, GA SP
Mrs. James A. Gaskins, Jr., Clearwater, FL SP
Mrs. J. Stuart Gaul, Charlotte SP
Mr. W.C. Gay, Greensboro CO
Dr. Emile L. Gebel, Shelby SP
Mrs. Charles M. Geer, La Grange, GA SP
Ms. Katherine B. Gefaell, Charlotte SP
Dr. Byron A. Genner, III, Potomac, MD SP
Mr. Walter C. Gentry, Morehead City SP
Ms. Gaia Georgopoulos, Columbia, SC SP
Mrs. Betsy C. Gholson, Henderson SP
Ms. Jean Marie Giarrusso, Milford, CT SP
Mr. L.H. Gibbons, Wilson SP
Dr. and Mrs. James F. Gibson, Sanford SP
Mr. M. Carr Gibson, Lumberton CO
Mr. and Mrs. C. Gorman Gilbert, Bronx, NY SP
Mrs. Charles Gilbert, Greenville SP
Dr. and Mrs. Michael T. Gilbert, Elizabeth City SP
Mrs. Peter Spence Gilchrist, Charlotte SP
Dr. Robert S. Gilgor, Chapel Hill SP
Dr. and Mrs. A. Gill, High Point SP
Mr. and Mrs. Robert J. Gill, Spotswood, NJ SP
Mr. Thomas Gillam, III, Windsor SP
Mr. and Mrs. Sterling G. Gilliam, Oak Harbor, WA SP
Mrs. Jean R. Glasgow, Morehead City SP
Mr. Robert M. Glasser, Hollywood, FL SP
Ms. Meri Glazer, E. Meadow, NY SP
Mrs. Louis G. Glenn, Winston-Salem CO
Mr. and Mrs. Edward Glover, Charlotte SP
Ms. Lucy Ann Glover, Wilmington SP
Miss Jean Godwin, Fairfax, VA SP
Dr. John E. Godwin, Westchester, IL SP
Ms. Myrna Goldberg, Raleigh SP
Ms. Peggy Golden, Sanford SP
Mr. Lawrence J. Goldrich, Virginia Beach, VA SP
Dr. Jonathan Goldsmith, Omaha, NE SP
Dr. and Mrs. C.B. Gooch, Melbourne, FL SP
Mr. and Mrs. Gerald L. Good, Richmond, VA SP
Mr. and Mrs. Leonard Goodman, Rutherford College SP
Mrs. Joel S. Goodwin, Salisbury CO
Mr. David L. Gordon, Atlanta, GA SP
Mr. Irvin H. Gordon, New York, NY SP
Mr. and Mrs. Paul J. Gordon, Scarsdale, NY SP
Mrs. Jean Gore, Delco SP
Ms. Mary C. Gore, Chapel Hill SP
Mrs. Daniel Gottovi, Wilmington SP
Dr. Kenneth S. Graff, Melbourne, FL LF
Mr. Adair M. Graham, Wilmington SP
Mrs. Charles P. Graham, Topeka, KS SP
Mrs. Dorothy C. Graham, Edenton SP
Mr. and Mrs. Lewis S. Graham, Winston-Salem SP
Mr. and Mrs. S. Page Graham, Winston-Salem SP
Mr. Isaac B. Grainger, Jr., Burlington SP
Mr. and Mrs. Thomas B. Grainger, Wilmington SP
Mrs. Lloyd L. Gravely, Rocky Mount SP
Mr. and Mrs. C.S. Graves, Washington SP
Mr. John Gray, Wilmington SP
Ms. Malinda Gray, Tampa, FL SP
Dr. Mary Jane Gray, Hillsborough SP
Mrs. Alma W. Green, Winston-Salem CO
Mr. Charles F. Green, Wilmington SP
Mr. and Mrs. Holcombe T. Green, Jr., Atlanta, GA SP
Mr. and Mrs. N.C. Green, Williamston SP
Mr. and Mrs. Ralph B. Green, Durham SP
Dr. Robert A. Greenberg, Faculty SP
Mr. Edward I. Greene, Asheville CO
Mr. and Mrs. Richard J. Greene, Old Bridge, NJ SP
Mr. and Mrs. William M.A. Greene, Morehead City SP
Mrs. Gary H. Greenspan, Dunedin, FL SP
Mrs. James Greenwood, Charlotte SP
Mr. and Mrs. Roy C. Greenwood, Valdese SP
Mr. and Mrs. F.H. Gregory, Jr., Weldon SP
Mrs. R.D. Gregory, Jr., Asheville SP
Mr. and Mrs. Joseph Grier, Jr., Charlotte SP
Mr. Raymond E. Grier, Greensboro SP
Mr. and Mrs. Evan Griffin, Williamston SP
Mr. G. Alan Griffin, Valdese SP
Mr. George C. Griffin, Williamston SP
Mr. and Mrs. Haynes Griffin, Greensboro SP
Miss Olivia Griffin, Chapel Hill SP
Mr. and Mrs. Thomas S. Griffin, Elizabeth City SP
Dr. Tommy B. and Mrs. Frieda G. Griffin, Spartanburg, SC LF CO SP
Mr. and Mrs. W. Clyde Griffin, Williamston SP
Mr. and Mrs. William C. Griffin, Jr., Williamston SP
Ms. Sarah H. Grine, Wilson SP
Mr. and Mrs. J.A. Grisette, Valdese SP
Dr. and Mrs. Joe W. Grisham, Faculty CO SP
A.G. Gross, Hicksville, NY SP
Mr. and Mrs. Edwin Gurganus, Rocky Mount SP
Mr. and Mrs. William Gurganus, Virginia Beach, VA SP
Mr. and Mrs. Thomas P. Gushurst, Huntington, WV SP
Dr. Bernard Gutterman, Greensboro CO
Mr. C. Caldwell Guy, Shelby SP
Mr. R. Hodges Hackney, Washington SP
Mr. and Mrs. Waldo E. Haisley, Chapel Hill SP
Mrs. Frances H. Hall, Raleigh SP
Dr. and Mrs. James S. Hall, Fayetteville SP
Mrs. R.B. Hall, Hickory SP
Mr. and Mrs. C. Rush Hamrick, Jr., Shelby SP
Mr. Larry D. Hamrick, Kings Mountain SP
Mr. and Mrs. John J. Hanes, Charlotte SP
Mrs. Irving A. Hansen, Vero Beach, FL SP
S.L. Hanson, Fort Walton Beach, FL SP
Robert A. and Jane Talley Hanudel, Roanoke Rapids SP
Dr. Frank J. Haraf, Knoxville SP
Mr. and Mrs. Edward H. Hardison, Charlotte SP
Mrs. Ira M. Hardy, II, Greenville SP
Dr. Charles Hargrove, El Cajon, CA SP
Mildred and Dorothy Ritch Harker, New Bern SP
Mr. David Alden Harlow, Research Triangle Park SP
Pam and David Harlow, Henderson SP
Dr. and Mrs. D. Harper, Concord SP
Mr. and Mrs. Daniel B. Harper, Durham SP
Mr. James M. Harper, Jr., Southport SP
Mrs. Margaret Taylor Harper, Southport SP
Mr. and Mrs. Samuel Harrell, Tarboro SP
Mrs. Dorothy Harrington, Durham SP
Mr. H.E. Harrington, Williamston SP
Mr. Boyd Gregory Harris, Rocky Mount SP
Dr. and Mrs. E. Flynn Harris, Charlotte SP
Mr. Nat T. Harris, Burlington SP
Ms. Katherine G. Harrison, Chapel Hill SP
Ms. Nancy Dunn Harrison, Scotland Neck SP
Mr. and Mrs. W. Gordon Harrison, III, Virginia Beach, VA SP
Mr. and Mrs. William Harrison, Jr., Durham SP
Mr. and Mrs. J. Albert Hart, High Point SP
Mr. Robert R. Hart, Anchorage, AK SP
Ms. Patricia Hartigan, Bethlehem, PA SP
Mrs. Lawrence Hartley, Lake Jackson, TX SP
Mrs. Ethel K. Hartshorn, Siler City SP
Mr. and Mrs. Jesse A. Harvell, Jr., Weldon SP
Ms. Margaret B. Harvey, Kinston SP
Mrs. Jessie Rose Harvin, Henderson SP
Mr. and Mrs. Bruce E. Hathaway, High Point SP
Mr. and Mrs. James Hatley, Valdese SP
Mr. Dorsey O. Hawkins, Elizabeth City SP
Ms. Anna Hayes, Chapel Hill SP
Mr. and Mrs. Frederick C. Heaton, Raleigh SP
Mr. James E. "Buddy" Heins, Sanford SP
Mrs. Nell M. Helms, Wilkesboro SP
Mrs. Marjorie Henderson, Elon College CO SP
Mrs. Norma Henderson, Pinehurst SP
Ms. Sarah G. Henderson, Richmond, VA SP
Ms. Frances B. Herbert, Weldon SP
Dr. William Herbert, Faculty SP
Dr. John C. Herion, Faculty SP
Dr. Kevin J. Herlihy, Glens Falls, NY SP
Mr. Jeff Herndon, Bynum SP
Mr. and Mrs. Layton Herndon, Bynum SP
Debra Karp and Sharon Herr, Raleigh SP
Mrs. Shirley Herring, Kinston SP
Dr. W.B. Herring, Browns Summit LF
Mrs. Xavier Hertle, Greensboro SP
Mr. and Mrs. William H. Hervey, Greensboro SP
Mr. and Mrs. L.B. Hester, Jr., Sanford CO SP
Mrs. P.H. Heydenreich, Tarboro SP
Mr. and Mrs. Floyd Higby, Jr., Westport, CN SP
Mrs. Herbert Highsmith, Robersonville SP
Mrs. Walter Hilderman, Charlotte SP
Mr. Nathaniel M. Hill, Jr., Raleigh SP
Ms. Nancy Hillmer, Carrboro SP
Dr. George H. Hitchings, DSA '82, Chapel Hill CO SP
Ms. Marie B. Hobbs, Wilmington SP
Mr. A.L. Hobgood, Jr., Smithfield CO
Judge and Mrs. Hamilton Hobgood, Louisburg SP
Mrs. Rebecca W. Hobgood, Smithfield SP
Mr. Howard L. Hodges, Jr., Greenville SP
Mr. and Mrs. Walter Hoff, Sunset Beach SP
Mr. and Mrs. R.N. Hoggard, Ahoskie SP
Mr. and Mrs. Lee Hollman, Valdese SP
Mrs. Adelaide Holderness, DSA '71, Greensboro CO SP
Mrs. Brent W. Holderness, Greensboro CO SP
Mr. Howard Holderness, DSA '71, Greensboro CO SP
Mrs. Graham Holding, Charlotte SP
Kenneth and Gail Holland, Greensboro SP
Mrs. Jennie Lu Hollander, Chapel Hill LF
Mr. Walter Hollander, Jr., Retired Faculty LF SP
Mr. G.T. Holmes, Pinehurst CO SP
Mr. and Mrs. Lee B. Holmes, Fairfax Station, VA SP
Mr. and Mrs. Ed Holt, Charleston, SC SP
Mr. Walter A. Holt, Raleigh SP

Mr. and Mrs. J.R. Holton, Jr., Sanford SP
Mrs. Isabelle D. Homes, Raleigh SP
Mrs. Wendy S. Honeycutt, Raleigh CO SP
Dr. Richard E. Hooten, Greensboro SP
Ms. Cathy C. Hoppe, Kitty Hawk SP
Ms. Betty L. Hornaday, Chapel Hill SP
Ms. Lynda S. Horney, Goldsboro SP
Mr. and Mrs. L.P. Hornthal, Jr., Elizabeth City SP
Mr. and Mrs. Thomas Horsley, Elizabeth City SP
Reverend and Mrs. James R. Horton, Williamston SP
Ms. Susan W. Horvath, Toledo, OH SP
W.C. House, Hamilton SP
Mrs. Charles W. Howard, Jr., Greenville SP
Miss Mary Ferebee Howard, Tarboro SP
Mr. and Mrs. Eugene Howden, Chapel Hill SP
Ms. Linda Howell, Charlotte SP
Ms. Sharon Howell, Greensboro SP
Mr. and Mrs. Peter S. Howsam, Raleigh SP
Mrs. Helen E. Hoyt, Rose Hill SP
Mrs. Ann Hubbard, Clinton SP
Mr. and Mrs. Edwin A. Hubbard, Sanford CO SP
Mr. and Mrs. Harry L. Hudson, Connelly Springs SP
Mr. and Mrs. John C. Huffard, Atlanta, GA SP
Ms. Susan L. Huffman, Raleigh SP
Mr. Robert Hughes, Raleigh SP
Mr. and Mrs. Buford H. Hunt, Raleigh SP
Mr. Patrick S. Hunt, Clinton SP
Mr. and Mrs. Bynum M. Hunter, Greensboro SP
Mr. and Mrs. Edwin Hunter, Statesville SP
Mr. and Mrs. Ralph B. Hunter, Broadway SP
Dr. Thomas M. Hunter, Jacksonville SP
Mr. and Mrs. Arthur Hurow, Chapel Hill SP
Mr. and Mrs. R.C. Hutchinson, New Bern SP
Mrs. S.A. Hutchinson, Elizabethtown SP
Mr. and Mrs. Oliver C. Huttaff, Jr., Wilmington SP
Mr. and Mrs. William Hyde, Marietta, GA SP
Ms. Sue Boney Ives, Wilmington SP
Ms. Ruby P. Jackson, Albuquerque, NM SP
Mr. and Mrs. Arnold I. Jacobs, Raleigh SP
Mrs. D. Jacobs, Gastonia SP
Dr. and Mrs. W. Joe Jacumin, Rutherford College SP
Ms. Judith Jaenicke, Raleigh SP
Mrs. Betsy James, Sanford SP
Dr. and Mrs. Ray L. James, Jr., Newport News, VA SP
Mrs. William H. Jarman, Gastonia SP
Mr. and Mrs. Robert G. Jeffries, Elizabeth City SP
Mr. and Mrs. Al Jenkins, Durham SP
Joe Henry and Jenny Jenkins, Ahoskie SP
Mrs. Michael B. Jenkins, Everett, WA SP
Office Staff of Dr. Jenki Jenkins and Williams, Elizabeth City SP
Ms. Comer Jennings, Atlanta, GA SP
Mr. and Mrs. John R. Jewett, Cary SP
Mr. Clinton Jobe, Rocky Mount CO
Mr. and Mrs. Charles M. Johnson, Jr., Raleigh SP
Mr. and Mrs. James Johnson, Dunn SP
Ms. Kathryn Johnson, Durham SP
Mr. and Mrs. Lawrence Johnson, Aberdeen SP
Mr. and Mrs. Loran Johnson, Jr., Raleigh SP
Ms. Nancy P., President Johnson, Raleigh SP
Ms. Patricia W. Johnson, Wilmington SP
Mr. Richard E. Johnson, Winston-Salem SP
Mr. and Mrs. Robert Johnson, Carrboro SP
Mr. and Mrs. William Johnson, Lillington SP
Ms. Sarah V. Johnston, Marietta, GA LF
Dr. Andrew R. Jones, Bloomington, IN SP
Ms. Brenda Jones, Rutherford College SP
Mr. and Mrs. Charles Jones, Oxford SP
Mr. and Mrs. Drewry J. Jones, Raleigh SP
Mr. and Mrs. Granville Jones, Southern Pines SP
Jasper D. and Rae S. Jones, High Point SP
Dr. Jeffrey D. Jones, Wilson SP
Mr. and Mrs. Kennon Jones, Isle of Palms, SC SP
N. Jack and Faye O. Jones, Cypress, TX SP
Mr. Randall Gray Jones, Isle of Palms, SC SP
Mr. and Mrs. Wesley Jones, Raleigh SP
Mr. John R. Jordan, Jr., Raleigh CO SP
Mr. and Mrs. Mike Jordan, Gibsonville SP
Mr. and Mrs. Thomas M. Jordan, Charlottesville, VA SP
Miss Jane Long Joyner, Greenville SP
Mrs. Samuel Joyner, Greensboro SP
Mr. and Mrs. William H. Joyner, Jr., Wilmington SP
Mr. and Mrs. William T. Joyner, Jr., Raleigh SP
Mr. I.B. Julian, DSA '88, Fayetteville SP
Mrs. I.B. Julian, Fayetteville SP
Mr. and Mrs. Joseph Just, New York SP
Dr. K.M. Kapur, Burlington SP
Mr. David G. Kaufman, Chapel Hill SP
Ms. Patricia Keegan, Carrboro SP
Mr. Mark G. Keen, Carrboro SP
Ms. Alice R. Keenan, Raleigh SP
Ms. Brenda D. Keene, Raleigh SP
Mrs. Richard Keever, High Point SP
Mrs. J.L. Keith, Sanford SP
Ms. Linda M. Keller, Sanford SP
Ms. Rosalie H. Kelly, Fayetteville SP
Ms. Susan Kelly, Charlotte SP
Mrs. Robert A. Kendrick, Valdese SP
Mr. and Mrs. Alfred Kenton, Elizabeth City SP
Dr. William D. Kerr, Jr., Winnetka, IL LF
Ms. Kelly R. Key, Raleigh SP
Ms. Donna M. Kibbler, Parlin, NJ SP
Mr. Edward B. Kidd, Jr., North Miami, FL LF
Dr. and Mrs. W.E. Kidd, Washington SP
Mr. David DeWitt King, III, Raleigh SP
Mrs. Janice K. King, Franklin LF
Ms. Kathryn R. King, Raleigh SP
Coach Jean A. Kinn, Corona Del Mar, CA SP
Mr. James N. Kiser, Cary SP
Mr. and Mrs. James E. Kissawetter, Bethlehem, PA SP
Ms. Mary Ann Kistenmacher, Elkton, MD LF
Mrs. J.B. Kitrell, Jr., Greenville SP
William and Harry Kittner, Weldon SP
Mr. and Mrs. Robert G. Kittrell, Jr., Henderson SP
Dr. D.M. Klein, Charlotte SP
Ms. Sarah G. Klein, Columbia, SC SP
Ms. Linda Klemmer, Winchester, VA SP
Mr. and Mrs. Kenneth T. Knight, Raleigh SP
Dr. and Mrs. A.E. Knoefel, Jr., Black Mountain SP
Mr. Charles Knupp, Greenville SP
Dr. and Mrs. Young H. Ko, Henderson SP
Ms. Patricia H. Koch, Chapel Hill SP
Mr. and Mrs. David Koehler, Charlotte SP
Mrs. Gina Koeppl, Rhinelander, WI SP
Mrs. Mary Grady Koonce, Raleigh SP
Mrs. Jack Koontz, Kinston SP
Capt. and Mrs. James B. Kramer, Virginia Beach, VA SP
Mr. Philip A. Kregor, Raleigh SP
Mr. and Mrs. Richard Kreiselman, Durham SP
Ms. Jeanette V. Kroncke, Roanoke Rapids SP
Mrs. Deborah Kroop, Woodbury, NJ SP
Mrs. Kenneth Kulp, Winston-Salem SP
Dr. and Mrs. Y. Kurts, Valdese SP
Mrs. John M. Lafferty, Valdese SP
Dr. and Mrs. W. Laird, Charlotte SP
Ms. Patricia W. Lambert, Greensboro SP
Dr. and Mrs. Henry C. Landon, III, North Wilkesboro SP
Dr. and Mrs. Edgar W. Lane, Jr., Valdese SP
Ms. Norma P. Lane, Elizabeth City SP
Mr. and Mrs. Robert G. Laney, Jr., Shelby SP
Mr. and Mrs. Harold Q. Langenderfer, Chapel Hill SP
Mr. and Mrs. Frank G. Lankford, III, Atlanta, GA SP
Dr. James L. Lapis, Bristol, TN SP
Mrs. Iris Large, Charlotte SP
Dr. and Mrs. E.W. Larkin, Jr., Washington SP
Staff of Larrymore Organization, Virginia Beach, VA SP
Ms. Peggy S. Lavigne, New Bern SP
Mr. and Mrs. Dan C. Lawrence, Sanford SP
Mrs. Gordon B. LeGrand, Raleigh SP
Mrs. W. Bruce Lea, Jr., Rocky Mount SP
Mr. James Grist Leach, Washington SP
Mrs. Frank Leak, Clinton SP
Ann K. and Preston H. Leake, Midlothian, VA SP
Mrs. Lillian Leath, High Point SP
Mr. Johnnie A. Lee, Carrboro SP
Ms. Mildred P. Lee, Smithfield SP
Mrs. T. Leslie Lee, Kinston SP
Mr. and Mrs. Thomas H. Lee, Durham SP
Ms. Sara Margaret A. Leeper, Belmont SP
Mr. and Mrs. Curtis Leggett, Tarboro SP
Mrs. Isabel Lehto, Wilmington SP
Dr. Thomas M. Leiendecker, Newport News, VA SP
Ms. Carolyn Lester, Gastonia SP
Richard and Charlotte Levin, Chapel Hill SP
Dr. Robert Levine, Fayetteville SP
Dr. and Mrs. C. Lewis, High Point SP
Mrs. Clifford Lewis, Wilmington SP
Dr. Luella J. Lilly, Walnut Creek, CA SP
Mrs. Alice R. Linden, Orlando, FL SP
Lineberger Foundation, Belmont SP
Mrs. J. Harold Lineberger, Charlotte SP
Mr. and Mrs. Joseph Lineberger, Belmont SP
Mrs. Lillian E. Lineberger, Belmont SP
Mr. Sam P. Lineberger, Gastonia SP
Mrs. Thomas H. Lineberger, Aberdeen SP
Mr. and Mrs. Walter Lineberger, Belmont CO SP
Ms. Elizabeth A. Linker, Morganton SP
Mrs. Robert P. Linker, Charleston, SC SP
Dr. Mack Lipkin, Faculty SP
Mrs. Helen Litch, Charlotte SP
Mr. and Mrs. George R. Little, Jr., Elizabeth City SP
Dr. and Mrs. Howard Little, Gibsonville SP
Mrs. Julia H. Lloyd, Durham SP
Edgar and Amanda Loessin, Greenville SP
Ms. Alice Loftin, Roanoke, VA SP
Mrs. John B. London, Charlotte SP
Dr. Fred J. Long, Jr., Raleigh SP
Ms. Wendy A. Long, Chapel Hill SP
Mr. and Mrs. Willie Long, Roanoke Rapids SP
Mr. Zachary F. Long, Jr., San Francisco, CA CO SP

Mr. Dennis M. Loughran, Durham SP
Miss Pearle Lovell, Greensboro SP
Dr. and Mrs. William F. Lovell, Matthews SP
Mr. S. Ray Lowder, Lincolnton CO SP
Mr. and Mrs. James E. Lowdermilk, Morganton SP
Mr. and Mrs. L.V. Lowe, Jr., Wilson SP
Dr. Caro Elise Luhrs, Washington, DC SP
Mr. and Mrs. Robert H. Luse, Rutherford College SP
Mrs. Joan E. Lyday, Greensboro SP
Mr. and Mrs. George Lyles, Jr., High Point SP
Mr. and Mrs. Charles E. Lynch, Bennettsville, SC SP
Thomas Jack Lynch Lynch, Winston-Salem SP
Mrs. Mary Todd MacKenzie, Washington SP
Mr. Hector MacLean, DSA '78, Lumberton CO
Mrs. Donald M. MacQueen, Wilmington SP
Dr. S.J. Macris, Wilmington SP
Mr. John Madden, Raleigh SP
Mr. and Mrs. Kevin P. Magee, Raleigh SP
Dr. Sanne Jones Magnan, Minneapolis, MN SP
Dr. Frederick D. Malkinson, Evanston, IL SP
Mrs. Revill Mallory, Raleigh SP
Ms. Catherine N. Mangum, Burlington LF
Mrs. Charles H. Manning, Williamston SP
Mr. and Mrs. Daniel Manning, Williamston SP
Mrs. W.C. Manning, Jr., Williamston SP
Mr. Wheeler M. Manning, Williamston SP
Mr. Brown Manor, Murfreesboro SP
Mrs. Irving M. Margolis, Williamston SP
Mrs. Jeffrey Margolis, Clinton SP
Ms. Mary Catherine Markham, Elizabeth City SP
Mrs. T.C. Markham, Norfolk SP
Dr. and Mrs. W. Markham, High Point SP
Mr. and Mrs. Salvatore B. Marsanopoli, Silver Springs, MD SP
Mr. and Mrs. James Marsh, High Point SP
Mr. and Mrs. Lex Marsh, Charlotte SP
Mr. John F. Marshall, Warsaw SP
Judge Henry C. Martin, Raleigh SP
Mr. and Mrs. James H. Martin, Jr., Linville SP
Ms. Judith A. Martino, Durham SP
Mr. and Mrs. John Mason, III, Gastonia SP
Mrs. W.A. Mason, Belmont SP
Mr. C. Knox Massey, DSA '57, Durham CO
Dr. and Dr. Alan and Julie Matsumoto, Arlington, VA SP
Ms. Elsie Mattiason, Chapel Hill SP
Mrs. Robert L. Maudlin, Gainesville, FL SP
Dr. H.R. Mauney, Jr., Rutherford College SP
Ms. Ruth C. Maverick, Tarboro SP
G.C. Maxwell, Jr., Greenville SP
Ms. Victoria Martin May, Alexandria, VA SP
Mr. and Mrs. James Maynard, Raleigh SP
Mr. and Mrs. James W. Maynard, Burlington SP
Ms. Nancy Maynor, Rutherford College SP
Mr. and Mrs. C.W. Mayo, III, Tarboro SP
Ms. Frankye McAdam, Hampton, VA SP
Estate of Jean C. McAlister, Greensboro CO
Mr. and Mrs. Charles McAllister, Pinehurst SP
Ms. Lisa L. McBryde, Sanford SP
Mrs. Betty R. McCain, Wilson SP
Mr. and Mrs. Sandy McClamroch, Chapel Hill SP
Mr. James McClure, Memphis, TN SP
Mr. and Mrs. J.H. McCombs, Jr., Morganton CO SP
Mrs. Iris H. McEwen McCrary, Burlington SP
Mrs. Benson McCutcheon, Jr., Durham CO SP
Mr. and Mrs. Allen P. McDaniel, Atlanta, GA SP
Dr. and Mrs. Gene McDaniel, Jr., Elizabeth City SP
Gen. and Mrs. John A. McEwan, Orlando, FL SP
Mr. and Mrs. William F. McGann, Jr., Carrboro SP
Mrs. Edgar McGee, Lexington, KY SP
Dr. and Mrs. J. McGimsey, Morganton SP
Mrs. Murphy McGirt, Kinston SP
Ms. Geneva McGrath, Raleigh SP
Mr. David L. McIlwain, Chapel Hill SP
Mrs. Thad McInnis, High Point SP
Dr. and Mrs. Hamilton McKay, Charlotte SP
James and Lucille McKee, Raleigh SP
Richard J. and M. Mae McKee, Greenville SP
Mr. Edward C. McLean, Birmingham, AL SP
Mrs. Jonathan O. McLean, Charlotte SP
Ms. Mary Ann McMahan, Asheville SP
Ms. Barbara F. McManeus, Charlotte SP
Mr. D.L. McMichael, Madison CO SP
Mrs. Campbell McMillan, Chapel Hill SP
Dr. Campbell W. McMillan, Faculty SP
Mr. Don and Ms. Sallie McMillion, Greensboro SP
Ms. Lura McMurray, Charlotte SP
Dr. Avery W. McMurry, Shelby SP
Mr. and Mrs. C.C. McNeely, III, Valdese SP
Mrs. Holt McPherson, High Point SP
Mr. and Mrs. Hubert McPherson, Camden SP
Mrs. Donald McQueen, Rock Hill, SC SP
Dr. Robert B. McQueen, Graham CO
Mrs. Thomas McRae, Rockingham SP
Mr. and Mrs. Bill Meekins, Elizabeth City SP
Dr. and Mrs. W.C. Mercer, Jr., Farmville SP
Mrs. Michael W. Meriwether, Bradenton, FL SP
Mrs. L.M. Merrill, Wilmington SP
Ms. Mabel Merritt, New Haven, CT SP
Mr. and Mrs. Martin Merzbach, New Milford, NJ SP
Mr. and Mrs. W.T. Miars, Jr., Wilmington SP
Mr. and Mrs. R.P. Michaels, Jr., Bethel SP
Mr. and Mrs. William Middlemas, Charlotte SP
Mr. Steve H. Millender, Pinehurst CO SP
Estate of J. Lowry Miller, Garden City, NY LF
Mrs. Janie Miller, Williamston SP
Mr. John H. Miller, Bartow, FL SP
Mr. David R. Millikan, High Point LF
Steve and Sally Millikin, Greensboro SP
Dr. Charles L. Milone, Chapel Hill SP
Delorise Milton, Englewood, NJ SP
Mr. and Mrs. Thomas Mincher, Greensboro SP
Mr. and Mrs. William Miner, Sunset Beach SP
Mrs. Ray D. Minges, Greenville SP
Mr. Marcus Mitchell, Jr., Valdese SP
Dr. Marlys P. Mitchell, Faculty SP
Mr. and Mrs. Monier E. Mitchell, Goldsboro SP
Ms. Patricia M. Mitchell, Valdese SP
Ms. Louis A. Mitta, Chapel Hill SP
Mr. O. Elwood Mixon SP
Mr. and Mrs. John E. Mode, Hickory SP
Ms. Florence D. Mohorn, Roanoke Rapids SP
Mr. Albert C. Monk, III, Farmville SP
Mr. W.C. Monk, Farmville SP
Mrs. Bernice Penn Moore, Reidsville SP
Ms. Cynthia W. Moore, Asheville SP
Jess and Barbara Moore, Reidsville SP
Ms. Nancy M. Moore, Greensboro SP
Mrs. S.K. Moore, Wilson SP
Dr. and Mrs. Walter H. Moore, Reidsville SP
Ms. Sheila Moorman, Harrisburg, VA SP
Mr. Pierre Morell, Chapel Hill SP
Mr. E. Jerry Morgan, Candler SP
Dr. John E. Morgan, Roanoke, VA SP

Ms. Mary F. Morgan, Raleigh SP
Mr. Kenneth Morris, New Bern SP
Mrs. Kenny J. Morris, Wilmington SP
Dr. Margaret Morris, Winston-Salem SP
Mr. and Mrs. Ralph Allen Morris, New Bern SP
Mr. Roy Morris, Charlotte SP
Mr. and Mrs. Zeb Morris, Valdese SP
Ms. Mary Frances Morrisette and Family, Elizabeth City SP
Mrs. Duncan Morton, Charlotte SP
Ms. Susan Morton, Macon, GA SP
Ms. Margaret B. Moss, Raleigh SP
Mr. John A. Moun, Wilmington SP
Mr. and Mrs. Dan Mull, Valdese SP
Mr. and Mrs. Frank G. Muller, Grimesland SP
Mr. and Mrs. Ralph W. Mullins, Jr., Raleigh SP
Mr. Holmes Murphy, Rose Hill SP
Mr. and Mrs. Harlin Murray, Valdese SP
Ms. Marjorie Murray, Roanoke, VA SP
Mr. A.G. Myers, Gastonia CO
Ms. Peggy Myers, Raleigh SP
Mr. and Mrs. Elmer P. Nance, Lexington CO SP
Mr. and Mrs. Edgar Nash, Chapel Hill SP
Mr. and Mrs. Pembroke Nash, Tarboro SP
Mrs. T.P. Nash, III, Elizabeth City SP
Dr. Hrudaya Nath, Birmingham, AL SP
Mr. and Mrs. James T. Naylor, Sanford SP
Mrs. Ann B. Nebel, Chapel Hill CO SP
Mrs. David B. Neeland, Montgomery, AL SP
Dr. John Nehil, Louisville, KY SP
Mr. and Mrs. John E. Neill, Southern Pines SP
Ms. Mariellen Nelis, Durham SP
Mrs. Henry N. Nelson, Melbourne, FL SP
Louise Nelson, Chapel Hill SP
Vella G. Nelson, Chapel Hill SP
Mr. and Mrs. Clint Newton, Jr., Shelby SP
Mr. and Mrs. Douglas F. Newton, Greenville SP
Mrs. John T. Newton, Clinton SP
Mr. and Mrs. Paul F. Nicholasen, Wilmington SP
Col. and Mrs. Erickson S. Nichols, Charlotte SP
B.B. and Evelyn S. Nicholson, Jr., Bahama SP
Mrs. Claire Nickels, Raleigh SP
Mrs. Larry Nickens, Goldsboro SP
Mrs. Andraos Nicola, Burlington SP
Mr. and Mrs. Leon S. Niegelsky, Reidsville SP
Mrs. Gary Niess, Charlotte SP
Ms. Leila B. Noble, Kinston SP
Mr. and Mrs. Walter E. Noell, Winston-Salem SP
Mr. Everett R. Nordstrom, Chapel Hill SP
Mr. George K. North, Pompton Lakes, NJ SP
Mr. and Mrs. Charles S. Norwood, Jr., Goldsboro CO
Ann Lowe Nuckolls, Greenville SP
Ms. Elizabeth P. Nutt, Greensboro SP
Mr. and Mrs. T. Michael O'Cain, Raleigh SP
Ms. Elizabeth C. O'Connell, Sanford SP
Mr. and Mrs. Daniel J. O'Connor, Atlanta, GA SP
Ms. Patricia O'Grady, Millbrae, CA SP
Mr. and Mrs. Brian A. O'Leary, Charlotte SP
Mr. Lou D. O'Shea, Durham SP
Mr. and Mrs. Rice B. Ober, Gleneden Beach, OR SP
Mr. Eugene Ochsenreiter, Jr., Asheville SP
Mr. and Mrs. John E. Odum, St. Pauls SP
Mr. J.W. Oglesby, Nashville, TN SP
Dr. Alan J. Olansky, Atlanta, GA SP
Miss Anne L. Olive, Raleigh SP
Mr. and Mrs. John Olive, Statesville SP
Mr. Percy J. Olive, Raleigh SP
Mr. and Mrs. J. Harvey Oliver, Jr., Fayetteville LF CO SP
Dr. David Ontjes, Faculty SP
Mr. and Mrs. Glenn Orr, Jr., Lumberton SP
Ms. Elizabeth R. Osbahr, Huntington, WV LF
Ms. Beatrice S. Overstreet, Greensboro SP
Mark and Carol Owens, Chapel Hill SP
Mr. V. Michael Owens, North Wilkesboro LF
Mr. and Mrs. Willis Owens, Elizabeth City SP
Dr. Howard Ozer, Faculty SP
Mr. and Mrs. Jack Palmer, Jr., Shelby SP
Dominic A. and Eloise L. Paoli, Greensboro SP
Mr. and Mrs. Jonus Paoli, Carson, CA SP
Mr. Gregory S. Pape, Chapel Hill SP
Mrs. Asa Parham, High Point SP
John A. Park, Jr., Raleigh SP
Mr. and Mrs. A. Scott Parker, Jr., High Point SP
Mr. and Mrs. Francis I. Parker, Charlotte SP
Mr. and Mrs. Fred Parker, Badin SP
Mr. and Mrs. George R. Parker, Cary SP
Mrs. H. Richard Parker, Greensboro SP
Mr. John Curtis Parker, Chapel Hill SP
Dr. and Mrs. W.P. Parker, Wilmington SP
Ms. Julie Parks, Greensboro SP
Sally and O.H. Parrish, Richmond, VA SP
Mrs. Beverly L. Pate, Southern Pines CO SP
Mrs. Eugene W. Pate, Kinston SP
Ms. Sandy Patseavouras, Greensboro SP
Dr. F.M. Simmons Patterson, Sr., New Bern LF
Dr. Joseph F. Patterson, Jr., New Bern SP
Ms. Joy Suzanne Patterson, Durham SP
Jimmie W. and John C. Patton, Charlotte SP
Ms. Margaret Payne, Charlotte SP
Mr. and Mrs. J. Norman Pease, Jr., Charlotte SP
Mr. and Mrs. J. Stanley Peel, Elizabeth City SP
Mrs. Lucia H. Peel, Raleigh CO SP
Mr. and Mrs. William Peel, Williamston SP
Mrs. A.B. Peele, Raleigh SP
Mr. A.G. Peeler, Jr., Myrtle Beach, SC CO
Ms. Betty Pennell, Valdese SP
Mrs. Robert B. Pennington, Middletown LF SP
Mr. Howard A. Penton, Jr., Wilmington SP
Mr. Thomas A. Perdieu, Morganton SP
Mr. Rafael J. Perez, Chapel Hill SP
Mrs. P.L. Perkins, Ashland, KY SP
Mrs. Nancy G. Perry, Siler City SP
Mr. and Mrs. Norman Perry, Colerain SP
Mr. Roger Perry, Chapel Hill SP
Mr. and Mrs. Warner Perry, Edenton SP
Mr. Warren S. Perry, Kinston SP
Mrs. Charles Peters, Cogan Station, PA SP
Ms. Marta Peterson, Chapel Hill SP
Dr. B. Phelan, Augusta, GA SP
Mrs. Edward Phifer, Morganton SP
Mr. H.H. Philips, Jr., Tarboro SP
Mrs. Charles W. Phillips, Gibsonville SP
Mr. and Mrs. Gary Phillips, Rocky Mount SP
Mr. Hubert J. Philpott, Lexington CO SP
Marshall I. Pickens, Charlotte SP
Mrs. George H. Pierson, Greensboro SP
Dr. George F. Pinsak, Monroe SP
Mrs. Willis Benton Pipkin, Reidsville SP
Mrs. Thomas Pitts, High Point SP
Mrs. Edward T. Plyler, Morganton SP
Clay and Emma Poindexter, Greensboro SP
Mr. and Mrs. F. Rockwell Poisson, Charlotte SP
Mr. Henry Poliakoff, Little Neck, NY SP
Ms. Elizabeth M. Politi, Carrboro SP
Alton B. Pons, Chapel Hill SP
Mr. Frank Pons, Valdese SP
Mr. and Mrs. Julius Pons, Valdese SP
Dr. and Mrs. E. Tilghman Poole, Wilmington SP
Mrs. J.G. Poole, Sr., Raleigh CO SP
Dr. and Mrs. C.A. Porter, Charlotte SP
Dr. Barry A. Portnoy, SP
Mr. Jan Postma, Spartanburg, SC SP
Mr. and Mrs. Jacki Powell, Drexel SP
Mr. and Mrs. Jerry Powell, Wilson SP
Mrs. Thomas W. Powell, Concord SP
Mr. and Mrs. Tommy Powell, Sr., Elizabeth City SP
Mr. and Mrs. James B. Powers, Rocky Mount SP
Mr. James M. Poyner, III, Raleigh SP
Mr. and Mrs. Colgate Prentice, Alexandria, VA SP
Mrs. Thomas Presson, Greensboro SP
Ms. Randy Preston, Las Vegas, NV SP
Mr. and Mrs. William Preston, Cary SP
Dr. Taylor Prewitt, Fort Smith, AR LF
Mr. and Mrs. J. Knott Proctor, Greenville SP
Mr. and Mrs. Sid Proctor, Lexington SP
Ms. Margaret B. Pruitt, Louisburg SP
Ms. Mable E. Pugh, Chapel Hill SP
Mr. and Mrs. Young A. Pully, Rocky Mount SP
Mrs. Edward Purdie, Jr., Raleigh SP
Mr. and Mrs. William Purvis, Bethel SP
Dr. William B. Radcliffe, Mitchenville, MD SP
Melba Ragland, Chapel Hill SP
Mr. and Mrs. W. Trent Ragland, Jr., Raleigh SP
Mr. and Mrs. William M. Ragland, Raleigh SP
Mrs. Mary Ragsdale, Jamestown CO
Mr. Julius M. Ramsay, III, Asheboro CO
Senator and Mrs. Anthony Rand, Fayetteville SP
Ms. Edith Rand, Greenville SP
Mr. W. Kenan Rand, Jr., Durham CO
Mr. and Mrs. William Rand, Raleigh SP
Mr. Julian Hines Raney, Chapel Hill SP
Dr. R. Beverly Raney, Sr., DSA '72, Chapel Hill CO SP
Josephine and Pinkney Rankin, Jr., Charlotte SP
Mr. and Mrs. E.B. Ransom, Worthington, OH SP
Mrs. John Ranson, Charlotte SP
Dr. and Mrs. R. Rao, Charlotte SP
Mr. and Mrs. J.P. Rascoe, Windsor SP
Dr. P.G. Rausch, Frederick, MD SP
Mr. William Alec Rawls, Jr., Rocky Mount SP
Mr. and Mrs. Edward Rayford, Jr., Durham SP
Ms. Jo Ann R. Read, Durham SP
Mrs. Charles Reavis, Chattanooga SP
Peter Reckert, Research Triangle Park SP
Ms. Jacqueline L. Redd, Durham SP
Mr. and Mrs. Harold H. Reddick, Youngsville SP
Mr. James Martin Rehbock, Cary SP
Ms. Ethereen B. Reid, Elizabeth City SP
Mr. and Mrs. Lewis C. Reid, Charlotte SP
Mr. Roy L. Reidel, Raleigh SP
Mrs. Joe V. Reinhardt, North Wilkesboro SP
Ms. Julie Reise, Hillsborough SP
Mrs. Mary M. Rendleman, Raleigh CO
Mr. Lawrence G. Retchin, Rockville, MD SP

Mr. and Mrs. Jerome Rhees, Elizabeth City SP
Dr. J.S. Rhodes, Jr., Williamston SP
Mrs. P. Rhodes, Lakewood, CO SP
Mrs. Carol T. Rich, Cary SP
Mr. and Mrs. E.A. Richard, Valdese SP
Mrs. James F. Richards, Orlando, FL SP
Mrs. C.V. Richardson, Star CO SP
Thomas and Elizabeth Richardson, Gastonia SP
Mr. J.P. Riddle, DSA '80, Fayetteville CO SP
Ms. Lillian F. Ridky, Chapel Hill SP
Mrs. Lambros C. Rigas, Rome, GA CO SP
Mr. and Mrs. Charles A. Riggs, Fort Thomas, KY SP
Miss Carol Rimmer, Troutman SP
Mrs. Douglas Ritch, Charlotte SP
Jay and Cathryn Rivers, Charlotte SP
Mr. and Mrs. Hoke Roberson, Jr., Edenton SP
Ruth Haislip Roberson, Durham SP
Mr. and Mrs. W.R. Roberson, Jr., Bath SP
Mr. Fletcher H. Roberts, Jr., Henderson SP
Mr. and Mrs. W. Thomas Roberts, Atlanta, GA SP
Mr. Julian H. Robertson, Jr., Locust Valley, NY CO
Ms. Marie P. Robertson, Williamston SP
Mr. and Mrs. T. Burke Robertson, Charlotte SP
Mr. and Mrs. C.O. Robinson, Jr., Elizabeth City SP
Mr. Julian Robinson, High Point CO
Mrs. Katherine S. Robinson, Garysburg SP
Miss Nancy Robinson, Wilmington SP
Mr. and Mrs. Ralph S. Robinson, Sr., Gastonia SP
Mr. and Mrs. Robert Robinson, Raleigh SP
Dr. Sandra Robinson
Mr. and Mrs. John D. Rock, Louisburg SP
Mr. and Mrs. R. Eugene Rogers, Williamston SP
Mr. Phil Rominger, Chapel Hill SP
Ms. Nancy Roper, Norfolk, VA SP
Mr. and Mrs. Arthur M. Rose, Belmont SP
Mr. and Mrs. Charles Rose, Henderson SP
Mrs. Eugenia R. Rose, Charlotte SP
Mr. and Mrs. Robert Rosenbacher, Chapel Hill SP
Mrs. Gertrude S. Rosevear, Edenton SP
Mr. Athos Rostan, Jr., Valdese SP
Mr. and Mrs. J.P. Rostan, Valdese SP
Mr. and Mrs. J.P. Rostan, Jr., Valdese SP
Mr. John P. Rostan, III, Valdese SP
Mrs. Constance D. Rothermel, New York, NY CO
Judge Julius Rousseau, Jr., North Wilkesboro SP
Mrs. Wade Russel Rowland, Greenville, SC SP
Mrs. David Rubin, Greensboro SP
Dr. Richard Rudders, Wellesley, MA SP
Mr. Peter Browne Ruffin, Wilmington SP
Laurance P. Runyon, Jr., Reidsville SP
Ms. Oma Taylor Russell, Wrightsville Beach SP
Dr. William M. Russell, Elizabeth City SP
Mr. James R. Rust, Lumberton CO
Ms. Vera Rutherford, Valdese SP
Dr. Hussain I. Saba, Lutz, FL SP
Mr. Deepak M. Sahasrabudhe, Rochester, NY SP
K. Salameh, Kinston SP
Mr. Paul L. Salisbury, Jr., Raleigh SP
Dr. and Mrs. Stephen R. Salisbury, Raleigh SP
Dr. and Mrs. G. Saltzman, Melbourne, FL SP
Mr. Harry Samet, High Point CO
Dr. John Sandbach, Austin SP
Mr. and Mrs. Clarence T. Sanders, Elizabeth City SP
Ms. Angela P. Sanders-Cliette, Durham SP
Dr. and Mrs. Paul Sarazen, Shelby SP
Mrs. Daniel Satisky, Raleigh SP
Mr. and Mrs. Bruce Sauls, Raleigh SP
Mr. Michael Savino, Carrboro SP
Dr. and Mrs. Charles J. Sawyer, III, Ahoskie SP
Ms. Lois P. Sawyer, Ahoskie LF
Dr. and Mrs. P. Sawyer, Tallahassee, FL SP
Dr. Nancy H. Scandella, Emeryville, CA LF
Mr. and Mrs. James Scarborough, Nags Head SP
Miss Mina Scarborough, Greenville, SC SP
Dr. James H. Scatliff, Faculty SP
Mr. and Mrs. William E. Schaller, Zebulon SP
Mr. and Mrs. Sol Schechter, Kinston CO SP
Braxton and Mary Schell, Greensboro SP
Mr. and Mrs. Felix Schirripa, Old Bridge, NJ SP
Mrs. Ronald E. Schmidt, Chapel Hill SP
Mr. Roland Schneckloth, Reidsville SP
Mr. Matthew S. Schneider, Greensboro SP
Ms. Saralee S. Schneirla, New York, NY SP
Mr. and Mrs. R.C. Schoonmaker, Charlotte SP
Mr. and Mrs. William Schubert SP
Mrs. Stephen B. Schuster, Greensboro SP
Mrs. Betty G. Scott, Morehead City SP
Dr. and Mrs. D.J. Scott, Morganton SP
Mr. Frank A. Seador SP
Mr. and Mrs. Benjamin Seagle, III, Charlotte SP
Mr. and Mrs. Earl B. Searcy, Jr., Valdese SP
H.D. Sechrest, High Point SP
Mrs. Julian W. Selig, Jr., Elizabeth City LF
Ms. Sandra Sessions, Carrboro SP
Miss Frances 'Cullen' Sessoms, Chapel Hill SP
Mr. and Mrs. Jim Sessoms, Chapel Hill SP
Mr. and Mrs. Harold Setzer, Valdese SP
Mrs. Robert E. Sevier, Greensboro CO SP
Mr. and Mrs. Charles Shaffer, Chapel Hill SP
A.W. and Ann W. Sharer, Rocky Mount SP
Cynthia Sharer, Carrboro SP
Mr. and Mrs. Wesley Shattuck, Fuquay-Varina SP
Dr. R.B. Shearin, Rockville, MD SP
Mrs. William Garland Shelton, Statesville SP
Mr. Tom H. Shepard, Edenton SP
Mr. G.P. Sherrill, III, Rutherford College SP
Mr. and Mrs. G. Parks Sherrill, Jr., Valdese SP
Mrs. Jean A. Sherrill, Winston-Salem SP
Dr. Chon R. Shoaf, Chapel Hill LF
Mr. and Mrs. Lenoir G. Shook, Tarboro SP
Mr. and Mrs. William R. Shreve, Jr., Kernersville CO
Mrs. William F. Shuford, Wilmington SP
Charles and Marguerite Siceloff, Jr., Hialeah, FL SP
Mrs. Lillian Siegel, McKeesport, PA SP
Mr. and Mrs. Murray Siegel, McKeesport, PA SP
Mrs. J. Lewis Sigmon, Charlotte SP
Mr. William R. Sigmon, Hickory CO
Dr. and Mrs. Henry Sikes, Greensboro SP
Mrs. David Sillmon, Greensboro SP
Mr. and Mrs. Jerry Simmons, Winston-Salem SP
Mr. C. Ernest Simons, Jr., Raleigh SP
Mr. Donald L. Sims, Edenton SP
Mrs. Katherine Skinner, Williamston SP
Mr. and Mrs. John G. Slater, Chapel Hill SP
Mrs. James B. Sloan, Wilmington SP
Mr. and Mrs. Elvin Small, III, Elizabeth City SP
Mr. and Mrs. Herbert Small, Elizabeth City SP
Mr. and Mrs. Morey Smerling, Chapel Hill SP
Mrs. C. Langley Smith, Greenville SP
Dr. Charles E. Smith, Chapel Hill LF
Mr. Dean E. Smith, Chapel Hill SP
Mr. and Mrs. Eddie C. Smith, Jr., Greenville SP

Mr. and Mrs. George R. Smith, Charlotte SP
Mr. and Mrs. Gordon Smith, Jr., Raleigh SP
Mr. and Mrs. Kenneth Smith, Jr., Charlotte SP
Mr. and Mrs. Lamar C. Smith, Fort Worth, TX SP
Dr. and Mrs. Lynn H. Smith, Sanford SP
Mr. and Mrs. P.R. Smith, Jr., Wilmington SP
Mr. and Mrs. Robert W. Smith, Morganton SP
Dr. Samuel W. Smith, Jr., Greenville, SC SP
Mr. and Mrs. Samuel W. Smith, Charlotte SP
Mr. and Mrs. Tim E. Smith, Valdese SP
Mr. and Mrs. Fred L. Smyre, Jr., Gastonia SP
Mr. and Mrs. Ross J. Smyth, Charlotte SP
Mrs. James W. Snyder, Wilmington SP
Dr. M.F. Soukkar, Henderson SP
Mr. and Mrs. Brian L. South, Durham SP
Mr. and Mrs. Jean Souweine, Pinehurst SP
Mrs. Thomas Spangler, Graham SP
Mr. David T. Sparrow, Washington SP
Ms. Shelley Spears, Charlotte SP
Mr. and Mrs. Philip Speasmaker, Charlottesville SP
Capt. and Mrs. Billie C. Spell, Littleton SP
Ms. Ann Lewallen Spencer, Winston-Salem SP
Ms. Kathryn Spencer, Asheville SP
Mrs. Martha Spencer, Chapel Hill SP
Mrs. David L. Spivey, Wilmington SP
Mr. Robert G. Spratt, Jr., Charlotte SP
Mr. and Mrs. James W. Spruill, Nags Head SP
Messrs. Lawrence and Kenny Sprunt, Wilmington SP
Mr. George F. Squillario, Valdese SP
Pat and Randy Stafford, Raleigh SP
Mrs. Willie R. Stafford, Greensboro SP
Mrs. Mary K. Stahl, Gulf Stream, FL CO
Dr. H.P. Stall, Melbourne, FL SP
Ms. Billie J. Stallings, Rocky Mount SP
Mrs. Elizabeth Stallings, Spindale SP
Ms. Sarah Stallings, Spindale SP
Howard J. and Edna M. Stanley, Southern Pines SP
Mr. and Mrs. Verner E. Stanley, Jr., Charlotte SP
Dr. Michael W. Stannard, Dallas, TX SP
Mr. William L. Stark, Henderson SP
William and Carol Starnes, Spartanburg, SC SP
Mr. and Mrs. Thomas W. Steed, Jr., Raleigh SP
Mrs. W.F. Steele, Valdese SP
Mrs. Sara Jane Steinert, Sanford SP
Dr. Otto S. Steinreich, Akron, OH SP
Co-workers of Lorraine G. Stephens, Cary SP
Dr. and Mrs. D.B. Stephens, Hattiesburg, MS SP
Mr. Louis C. Stephens, Jr., DSA '79, Greensboro CO
Ms. Ernestine S. Stephenson, Halifax SP
Mr. and Mrs. Walter T. Stephenson, Rockingham CO SP
Mr. Russell H. Stepp, Sr., Lowell SP
Ms. Blanche Stevens, Greensboro SP
Mrs. George Stevens, Oak Ridge, TN SP
Mr. and Mrs. Paul A. Stevenson, Elizabeth City SP
Dr. and Mrs. Robert A. Stevenson, Rutherford College SP
Mr. and Mrs. H.J. Stockard, Morehead City SP
Mr. and Mrs. Ralph M. Stockton, Jr., Winston-Salem SP
Mr. and Mrs. Henry C. Stokes, Jr., Hertford SP
Dr. and Mrs. G. Stone, High Point SP
Mr. John R. Stone, Raleigh SP
Mr. and Mrs. C.T. Stowe, Jr., Belmont SP
Mr. and Mrs. D. Harding Stowe, Belmont SP
Mr. and Mrs. Daniel J. Stowe, Belmont SP
Mr. and Mrs. George Stowe, Jr., Belmont SP
Mr. and Mrs. R.L. Stowe, III, Belmont SP
Mr. Robert L. Stowe, Jr., Belmont CO
Mrs. Robert D. Stratton, Erie, PA SP
Mr. and Mrs. Ralph Strayhorn, Winston-Salem SP
Mr. and Mrs. James R. Strickland, Jr., Durham SP
Mr. John C. Strickland, Goldsboro CO
Mrs. Beverly W. Stutts, Chapel Hill SP
Dr. H.A.I. Sugg, Greenville SP
Mr. and Mrs. R.B. Suggs, Jr., Belmont SP
Dr. Robert and Mrs. Gayle Suggs, Belmont SP
Mr. John T. Sullivan, Charlotte SP
Mr. John Thomas Sullivan, Charlotte SP
Mrs. Bauer Sumpio, Clinton SP
Ms. Amelia Surratt, Clinton SP
Mrs. John P. Surratt, Clinton SP
Dr. and Mrs. H.G. Sutton, Winston-Salem SP
Mr. and Mrs. James H. Swain, Morehead City SP
Mr. and Mrs. Oscar T. Swanson, Chapel Hill SP
Mr. and Mrs. Robert D. Sweeney, Chapel Hill SP
Dr. Hale C. and Anna Kay Sweeny, Durham SP
Ms. Mary H. Sykes, Kill Devil Hills SP
Mr. Owin B. Sykes, Edenton SP
Mrs. William H. Taft, Jr., Greenville SP
Dr. Luther Talbert, Faculty SP
Mr. Banks C. Talley, Jr., Raleigh SP
Eru Tanabe, New York, NY SP
Ms. Nancy Tannenbaum, Chapel Hill CO SP
Mr. and Mrs. James M. Tanner, Jr., Raleigh SP
Mr. and Mrs. James T. Tanner, Rutherfordton SP
Dr. Kenneth S. Tanner, Jr., Rutherfordton CO
Dr. Edward J. Tapper, Palo Alto, CA SP
Joe and Aline Tate, Mebane SP
Mr. and Mrs. John A. Tate, Jr., Davidson SP
Ms. Nora Tate, Burlington SP
Mr. and Mrs. Michael J. Tatum, Sanford SP
Dr. David T. Tayloe, Sr., DSA '84, Washington LF
Ms. Anna A. Taylor, Raleigh SP
Dr. and Mrs. B.A. Taylor, Rockledge, FL SP
Mr. and Mrs. Bill Taylor, Elizabeth City SP
Mrs. Erma B. Taylor, Williamston SP
Judge and Mrs. H.P. Taylor, Jr., Wadesboro SP
Ms. Helen Katherine Taylor, Williamston SP
Mrs. William S. Teachey, Virginia Beach, VA SP
Ms. Judy W. Teele, Morganton SP
Mr. and Mrs. Dillard Teer, Durham SP
Mr. M. Page Teer, Wilmington SP
Ms. Barbara Temple, Valdese SP
Ms. Eleanor Temple, Kinston SP
Dr. Colin G. Thomas, Jr., Faculty SP
Mr. and Mrs. Fletcher Thomas, Jr., Williamston SP
Mr. and Mrs. Norwood A. Thomas, Jr., Durham SP
Mr. and Mrs. Dan Thomason, Pinehurst SP
Mrs. Henry Thomason, Gastonia SP
Ms. Rosalind Thomason, Gastonia SP
Mr. and Mrs. W.A. Thomason, Jr., Charlotte SP
Dr. John A. Thompson, Jr., Charlotte SP
Mr. M.H. Thompson, Wilson SP
Mr. D.J. Thurston, III, Charlotte SP
Mr. and Mrs. D.J. Thurston, Jr., Charlotte CO SP
Ms. Susan F. Thurston, Salisbury LF SP
Mr. and Mrs. Lloyd Tice, Sanford SP
Mr. and Mrs. John Tidwell, Jr., Cary SP
Mr. Edward B. Titmus, Sutherland, VA CO SP
Lt. Gen. and Mrs. John J. Tolson, III, Raleigh SP
Dr. Roger J. Tolson, Elizabeth City SP
Ildiko D. Tombitas, Cary SP
Mrs. Anne Tomlinson, Charlotte SP
Mr. and Mrs. Lawrence Tomlinson, Charlotte SP
Ms. Mabel Toms, Martinsville, VA SP

Ms. Margaret Tornello, Philadelphia, PA SP
Mrs. Elizabeth M. Tornquist, Durham SP
Ms. Barbara Tracy, Old Bridge, NJ SP
Mrs. Steven Tracy, Gastonia SP
Miss Joyce S. Trado, Hickory SP
Mr. and Mrs. C. Heide Trask, Jr., Wilmington SP
Mr. and Mrs. Johnny B. Treece, Albemarle CO
Mr. David L. Trees, Chapel Hill SP
Mr. Stephen J. Tremont, Raleigh SP
Ms. Marguerite Trexler, Charlotte SP
Mr. and Mrs. Roland Tripp, Cary SP
Mr. and Mrs. James R. Trotter, Raleigh SP
Mrs. Belk C. Troutman, Grifton SP
Ms. Lorraine J. Trow, Carrboro SP
Mr. and Mrs. K.S. Trowbridge, Jr., St. Simons Island, GA SP
Mr. C.M. Tucker, Jr., Pageland, SC SP
Ms. Maude Tucker, Henderson LF
Ms. Judy P. Tulloch, Sanford SP
Mr. and Mrs. Phil Tunks, Cramerton SP
Mr. James R. Turner, Chapel Hill CO
Mr. and Mrs. John L. Turner, Winston-Salem SP
Mr. and Mrs. Jerry Turpin, Reidsville SP
Mr. Russell E. Twiford, Elizabeth City SP
Mrs. Louis Underwood, Chapel Hill SP
Dr. Judson Van Wyk, Faculty SP
Mrs. Eloise M. Vaughn, Raleigh SP
Mr. and Mrs. Graham Vaughn, High Point SP
Mrs. B. Veazy, Sarasota, FL SP
Mr. and Mrs. W.C. Viggers, Valdese SP
Mrs. Mark M. Voglehut, Tallahassee, FL SP
Col. and Mrs. James B. Vogler, Jr., Raleigh CO
Mr. and Mrs. H.M. Von Oesen, Wilmington SP
Dr. Howard S. Wainer, Greensboro SP
Mr. and Mrs. Bob Walker, Valdese SP
Mr. Eugene A. Walker, Raleigh SP
Mr. and Mrs. Harry G. Walker, Jr., Raleigh SP
Mrs. Jack G. Wall, Burlington SP
Mrs. Roger I. Wall, Raleigh SP
Ms. Patricia Wallace, Raleigh SP
Mrs. James Walsh, Salem, VA SP
Mr. Bill Waltner, Chapel Hill SP
Mr. and Mrs. David L. Ward, Jr., New Bern SP
Mr. and Mrs. Gerald Ward, Tarboro SP
Mr. and Mrs. Hallett Ward, Washington SP
Ms. Lena B. Ward, New Bern SP
Ms. Louise M. Ward, Chapel Hill SP
Mr. and Mrs. Warren Ward, Valdese SP
Mrs. David M. Warren, Chapel Hill SP
Mr. and Mrs. Lindsay Warren, Jr., Goldsboro SP
Mrs. Edna Washburn, High Point SP
Mr. and Mrs. Wade Waters, Jr., Washington SP
Mr. and Mrs. Donald R. Watson, Wilmington SP
Dr. and Mrs. E. Watson, Kinston SP
Mr. and Mrs. William Weatherly, Elizabeth City SP
Mr. and Mrs. Henry Lee Weathers, Shelby SP
Ms. Anita Weaver, Fayetteville SP
Mrs. Gwendolyn G. Webb, Salisbury SP
Mr. and Mrs. Joseph Webb, Raleigh SP
Ms. Louise Dibrell Webb, Greenville SP
Mr. William W. Webb, Chapel Hill SP
Mr. John Franklin Weedon, Jr., Raleigh SP
Mr. and Mrs. C.L. Weill, Jr., Greensboro SP
Mr. Joseph B. Weissberg, Guilford, CT SP
Mr. and Mrs. James M. Weissman, Greensboro SP
Mr. and Mrs. Calvin B. Wells, Fayetteville SP
Mr. Calvin F. Wells, Wilmington SP
Dr. Daniel E. Wertman, Hillsborough SP
Wayne and Ruth West, Rocky Mount SP
Mr. and Mrs. Henry G. Weyerhaeuser, Wilmington SP
Mr. Harry F. Weyher, New York, NY SP
Mrs. Pat Weyher, Topsail Beach SP
Dr. David Whetstone, Valdese SP
Mr. and Mrs. Richard Whisenant, Valdese SP
Ms. Garry B. Whitaker, Winston-Salem SP
Mr. and Mrs. Hezekiah Whitaker, Raleigh SP
Dr. Emmett R. White, Rutherford College SP
Dr. Gilbert C. White, Faculty SP
Dr. Helen L. White, Chapel Hill SP
Mr. and Mrs. Lorimer White, Elizabeth City SP
Mrs. Mack W. White, Charlotte SP
S. Montgomery and Nancy White, Jr., Raleigh SP
Mr. and Mrs. Sydnor M. White, Sr., Raleigh SP
Mr. and Mrs. Clarence E. Whitefield, Chapel Hill SP
Mr. and Mrs. C. Raymond Whitehead, Ramseur SP
Dudley and Sheila Whitley, Littleton SP
Mr. and Mrs. James G. Whitton, Salisbury SP
Mrs. Barbara Wicker, Wilmington SP
Mr. and Mrs. John C. Wickham, Greenville SP
Mr. David R. Wiese, Valdese SP
Ms. Daisy Wiggins, Wilson SP
Ms. Ina B. Wiggins, Garner SP
Mr. Tim Wilcosky, Chapel Hill SP
Mrs. Benson R. Wilcox, Chapel Hill CO
Dr. Judson V. Wilder, Jr., Jonesboro, GA SP
Charles and Ruth Wildey, Hillsboro, OH SP
Dr. and Mrs. Randolph Wilkerson, Jr., Charlotte SP
Ms. Betty Wilkins, Goldsboro SP
Mrs. James W. Wilkinson, Charlotte SP
Mr. and Mrs. Samuel Wilkinson, Valdese SP
Mr. and Mrs. Charles R. Willard, Charlotte SP
Dr. Rolf Willemze, Amsterdam SP
Mr. Alfred Williams, III, Raleigh SP
Mr. and Mrs. Clyde I. Williams, Camden, SC SP
Ms. Jean C. Williams, Nashville, TN SP
Mr. and Mrs. Jessie F. Williams, Fayetteville SP
Mr. and Mrs. John Williams, Raleigh SP
Mr. Jonathan D. Williams, Memphis, TN SP
Ms. Kathleene Williams, Asheville SP
Ms. Nellie A. Williams, Newport News, VA SP
Mr. Peter P. Williams, Sr., Raleigh SP
Mr. Peter P. Williams, Raleigh SP
Ms. Princess S. Williams, Durham LF
Dr. and Mrs. Robert Williams, Chapel Hill SP
Dr. and Mrs. Samuel R. Williamson, Jr., Chapel Hill SP
Mr. Meade H. Willis, Jr., Winston-Salem SP
Ms. Jan D. Willmott, Arden SP
Mrs. Charles Willson, Greenville SP
Mr. George D. Wilson, Fayetteville SP
Mr. and Mrs. James C. Wilson, Jr., Gastonia SP
Mr. and Mrs. Marvin P. Wilson, Jr., Raleigh SP
Mr. P.O. Wilson, Jr., Valdese SP
Mrs. Robert G. Wilson, Prescott, AZ SP
Mr. Russel R. Wilson, Burlington SP
Mr. William T. Wilson, III, Winston-Salem SP
Dr. Julian E. Winslow, Jr., Hertford CO
Ms. Carmi E. Winters, New Bern SP
Mr. H. Vernon Winters, Winston-Salem SP
Mr. and Mrs. Eugene T. Wise, Randleman SP
Ms. Clara L. Withrow, Charlotte CO
Mr. and Mrs. John Gilliam Wood, Edenton SP
Mr. and Mrs. John Gilliam Wood, III, Edenton SP
Mrs. Ruth R. Wood, Chapel Hill SP
Mr. William Z. Wood, Sr., Winston-Salem SP
Mrs. Winifred J. Wood, Camden SP
Mr. Louie E. Woodbury, Jr., Wilmington CO SP
Mr. Richard Woodbury, Wrightsville Beach SP
Dr. David T. Woodley, Faculty SP
Mr. C.C. Woods, Jr., Durham SP
Mr. and Mrs. John H. Woolard, Edenton SP
John and Harriet Woolard, Edenton SP
Ms. Bertha Wooten, Goldsboro SP
Mr. Cecil W. Wooten, Jr., Kinston SP
Mr. Frank M. Wooten, Jr., Greenville SP
Mr. and Mrs. Robert W. Woronoff, Ann Arbor, MI SP
Mr. Ford Worthy, Jr., Raleigh SP
Mr. and Mrs. D. Oliver Wright, Atlanta, GA SP
Dr. Edward K. Wright, Jr., Williamston SP
Mrs. Marjorie V. Wright, Elizabeth City SP
Mrs. Walter L. Wright, Kinston SP
Mrs. Thomas Wynne, Greenville SP
Ms. Mary B. Yarborough, Sanford SP
Mrs. Sue Yates, Asheboro CO
Dr. and Mrs. James York, Jr., Chapel Hill SP
Ms. Ann Y. Young, Asheville SP
Mr. Eugene L. Young, Valdese SP
Ms. Peggy Young, Charlotte SP
Mrs. Peter Young, Greensboro SP
Smith H. and Elizabeth Young, Henderson SP
Mr. and Mrs. Carl W. Zabel, Sanford SP
Mr. Edward R. Zane, Greensboro SP
Dr. Kenneth Zeitler, Raleigh SP
Dr. Robert Zeppa, DSA '88, Miami, FL SP
Mrs. Robert Zeppa, Miami, FL SP
Mr. and Mrs. A.A. Zollicoffer, Jr., Henderson SP

Corporations, Foundations

Area Health Education Center, Area L. Staff
Ahoskie High School
Albemarle Hospital
Medical Staff Albemarle Hospital
Board of Trustees and Administration—
Albemarle Hospital
Aldridge, Seawell and Khoury
Allied Corporation Foundation
Allied-Signal Corporation
Almont Shipping
Altrusa Club of Burlington
Altrusa Club of Mount Airy
Altrusa Club of Rocky Mount
American Hospital
Anaquest
AndeLear Corporation
Emily B. Andrews Memorial Foundation
BASS/Davis Library
Barclay's Foundation
Barclays/American Foundation, Incorporated
Barnhill Contracting
Battle Foundation
Beta Sigma Phi Sorority
Bethany Ladies Auxiliary
Olin Binkley Babtist Church
Branch Banking & Trust
Brenner Foundation, Incorporated
Broyhill Foundation
R.A. Bryan Foundation
Bryant Supply Company, Incorporated
J.W. Burress Foundation
Burroughs Wellcome Company
Business and Finance at the University of
North Carolina-Chapel Hill
C. & R. Implement Company
CMB Properties
Estate of Carlton Pope
Carolina Clinic, Incorporated
Carolina Kiwanis
Carter Foundation
Catawba Dermatology Associates
Catawba Firemen's Association
Cedar Grove United Methodist Church
The Cemala Foundation
Central Carolina Bank
Central Carolina Bank Foundation, Incorporated
Central Prison
Chapel Hill Fertility
Chapel Hill Hotel Company
Charleston Gastroenterology
Charlotte Fire Department Credit Union
Charlotte Fire Department
Charlotte Fire Fighters
Charlotte Pathology Group
College Pharmacy
College Realty Company
Columbia Gastroenterology Clinic, P.A.
Commercial Carving
Frank H. Conner Company
Crist Charitable Foundation
Crist Clinic for Women
Tom Crockett Irrigation
The Crossland Company
Davis Pharmacy
DeKalb Federal
Deloitte, Haskins and Sells
Delta Kappa Epsilon Fraternity
Dermik Laboratories, Incorporated
Dickson Foundation
Ruth W. Dolen Foundation
Dover Foundation, Incorporated
John Dowd & Associates
Drexel Heritage Furnishings, Incorporated
Dudley Beauty & Barber Supply, Incorporated
Durham County Fire Fighters Association
Durham Radio Company
Edenton Cotton Mills
Edgecomb Homestead
Einstein Institute
Estate of Elizabeth Thomas
Emergency Room Staff at
North Carolina Memorial Hospital
Eutectic Electronics
Factory Mutual Engineering Associates
Federal Paper Board Company, Incorporated
First Methodist Church of Rocky Mount
First Union Corporation
First Union East Region Bank (Raleigh)
First Union National
Flagler Resort
Florence Rogers Charitable Trust
Rod Foppiano Memorial Tournament
Foundation for the Carolinas
Foundation of Hope
Fullerton Foundation
Gardner-Marsh Gas
Gastroenterology Associates
Larry Goldrich Foundation
Goody's Manufacturing
Fred Graham Construction
Gray's Creek Woman's Club
Gregory Jewelers, Incorporated
Haley Foundation
Halifax Eye Center
Hardee's
Harrison-Wright Company, Incorporated
Haw River Volunteer Fire Department
Herzog Foundation
High Point Furniture
Hill Dermaceuticals
Hinshaw Methodist Church
Hoke Motor Company
Mrs. Malcolm H. Hunt Trust
Hunter Realty
Edwin Hunter and Associates
Office Staff of Dr. Samuel G. Jenkins
Julep Publications
Just The Facts, Incorporated
Kappa Alpha Theta Sororiety
Kiwanis Club
Knight Communication
Lafayette Firemen's Club
Staff of Larrymore Organization
Lineberger Foundation, DSA '84
Linford Mills
Lomax & McComb, MD, PA
MacField, Incorporated
Marion Laboratories
Mark's Creek LFA Corporation
Marsh Associates, Incorporated
Estate of Walker Martin
Matron's Guild
Mecklenberg County Volunteer Fire Department
Merrill Lynch Realty
The Miller Orthopaedic Clinic, Incorporated
Mincher Investments
Monroeton Fire Auxiliary
Monroeton Volunteer Fire Department
Mt. Hope United Church of Christ
Munroe Best Foundation, Incorporated
Myers-Ti-Caro Foundation
North Carolina Academy—Family Practice
North Carolina Association OC Health Nurses
North Carolina County Fire Marshall's Association
North Carolina Department of Correction
North Carolina Jaycees Foundation, Incorporated
North Carolina Ladies Auxiliary Department
North Carolina Society of Anesthesiology
North Carolina Trust
North Carolina National Bank—
Florida, Broward County
North Carolina National Bank—
National Bank, Inverrary Staff
North Carolina National Bank Corporation
North Carolina National Bank Corporation Charities
North Carolina National Bank Trust Group—
Charlotte
Nalle Clinic
National Starch & Chemical Foundation
Natural Gas
Neutrogena Corporation
New Hope Firemen's Association
Oakwood Homes Corporation
Oasis Temple
Onslow County United Way
Orange Water & Sewer
Oregon Hill Volunteer Fire Department
Panhellenic Council at the University of
North Carolina-Chapel Hill
Patton's, Incorporated
Peoples Security Life Insurance
Phi Delta Theta Fraternity
Phillpott Foundation
Pi Kappa Phi Fraternity
Piedmont Internal
Floyd S. Pike Electrical Contractor, Incorporated
Irene Rand Poole Foundation
Estate of Carlton Pope
George S. Poyner Foundation
Raleigh Professional Fire Fighters Association
Recreation League
Reidsville Fire Department
Estate of John S. Rhodes
J.P. Riddle Charitable Foundation
Roanoke Rapids Fire Department
Robinson-Humphrey Company
Rocky Mount Fire Department
Florence Rogers Charitable Trust
Rorer Pharmaceutical
Rolf Werner Rosenthal, Incorporated
Ross Laboratories
Rotary Scholarship Award
The Saltbox, Incorporated
Sampson Internal
Sandoz Pharmaceuticals
Schechter Foundation
Schiele Museum
Schwan's Sales
Scottish Food System
William A. Smith Trust Fund
Smyre Foundation
South Gastonia Firefighters
Southeastern Gas
Southern National Bank—Lumberton
Southminster
University of North Carolina—Chapel Hill
Special Education-2nd Year Doctoral Students
St. Steven's Episcopal
Stackhouse Foundation, Incorporated
William Stark & Company
J.P. Stevens & Company
Stiefel Foundation
Daniel Stowe Foundation
Student National Medical Association—
University of North Carolina—Chapel Hill
Surgical Ambulatory Care Center
Swan Volunteer Fire Department
Sykes & Company, P.A.
Estate of Elizabeth Thomas
Titmus Foundation
Traffic and Transport—Greensboro
Anna H. Transou Unitrust
Upjohn Company
VFW Ladies Auxiliary
Phillip L. Van Every Foundation
Varsity Men's Wear, Incorporated
Cary Office Employees
Wachovia Bank and Trust—Cary
Capital Management Group
Wachovia Bank and Trust—Winston-Salem

Wachovia Corporation
Wake County Medical Society Auxiliary
Wake Stone Corporation
Estate of Walker Martin
Watson Insurance
Wayne Foundation
West-Point Pepperell
Whitton Distributors
Alfred Williams & Company
Wilmington Pathology Associates
Wilmington Trust Company
Wilson Foundation
Women's Club of Williamston
Wood Land Realty
C.C. Woods Construction Company, Incorporated
World Health Communications
Yanceyville Road Fire Department Ladies Auxiliary
Zlinkoff Foundation

JAYCEES

Ahoskie Jaycees
Alamance Jaycees
Apex Jaycees
Asheboro Jaycees
Asheville Jaycees
Belmont Jaycees
Boone Jaycees
Boonville Jaycees
Brevard Jaycees
Bryson City Jaycees
Burlington-Alamance Jaycees
Burnsville Jaycees
Carthage Jaycees
Cary Jaycees
Chair City Jaycees
Chapel Hill/Carrboro Jaycees
Charlotte Jaycees
Claremont Jaycees
Clemmons Jaycees
Crede Et Vincent Jaycees
Cross Creek Jaycees
Dunn Jaycees
Eden Jaycees
Elizabethtown Jaycees
Elkin Jaycees
Fayetteville Jaycees
Fellowship Jaycees
Garner Jaycees
Gastonia Jaycees
Goldsboro Jaycees
Greensboro Jaycees
Greenville Jaycees
Henderson Jaycees
Hendersonville Jaycees
Hickory Jaycees
High Point Jaycees
Jacksonville Jaycees
Kernersville Jaycees
Kinston Jaycees
Knightdale Jaycees
Laurinburg Jaycees
Louisburg Jaycees
Mount Airy Jaycees
New Bern Jaycees
New Chance Jaycees
Norwood Jaycees
Onslow County Jaycees
Perquiman's County Jaycees
Pfafftown Jaycees
Princeton Jaycees
Richmond Jaycees
Roanoke Rapids Jaycees
The Heart of Robeson Jaycees
Rocky Mount Jaycees
Roxboro Jaycees
Salisbury Jaycees
Seagrove Jaycees
Smithfield Jaycees
South Edgecomb Jaycees
Southern Pines Jaycees
Spencer Jaycees
Spruce Pine Jaycees
Statesville Jaycees
Tri-City Jaycees
Western Wake Jaycees
Wilmington Jaycees
The Heart of Wilson Jaycees External
Winston-Salem Jaycees

Class Notes

Manning Berryhill Club

Arthur I. Sims, M.D. '37, has retired from pediatrics practice. He lives in Arlington, VA, where he does parent and adolescent counseling on a part-time basis.

50s

Paul Weldon Boyles, M.D. '51, has been named medical director of worldwide medical affairs for Clinical Research International, which manages large-scale multicenter clinical trials in North America and Europe. CRI is based in Research Triangle Park.

William H. Weinel Jr., M.D. '54, lives in Wilmington, where he is senior partner in a five-person obstetrics and gynecology practice.

Richard A. Boyd, M.D. '56, has been elected to a three-year term on the board of trustees of Davis Community Hospital in Statesville.

Robert S. Cline, M.D. '57, reports that he has taken early retirement and is spending his time traveling, gardening and enjoying his grandchildren.

Benson R. Wilcox, M.D. '57, is professor of surgery and chief of cardiothoracic surgery at the UNC-CH School of Medicine. He was visiting consultant at the Letterman Army Medical Center in San Francisco, where he presented a lecture entitled "A New Approach to Congenital Heart Disease."

60s

A. Everette James Jr., M.D. '63, is co-author of two textbooks. *Diagnostic Sonography* is a survey text in ultrasound; *Magnetic Resonance Imaging* is a two-volume, 2,000 page text.

George C. Hemingway Jr., M.D. '63, practices internal medicine with the Tarboro Clinic. He and his wife, Lynne, have three children.

70s

Harry L. Sauers, M.D. '70, practices psychiatry in Clearwater, FL.

Baxter C. Leonard, M.D. '72, was elected secretary/treasurer by the medical staff of Community General Hospital in Thomasville. Leonard is a family practitioner. He and his wife, Gail, live in High Point.

G. Dean Wilson, M.D. '72, is a neurologist in a five-person group in Johnson City, TN. He and his wife, Janine, have two sons and are active in the Ashley Academy, a private school they established.

Wilton M. Reavis Jr., M.D. '73, lives in Lakeland, FL, where he is a pathologist at Lakeland Regional Medical Center and medical director of the Citrus Regional Blood Center.

David A. Rockwell, M.D. '74, is an orthopaedist with a five-person group in Goldsboro. He is immediate past president of the Wayne County Medical Society and chief of staff at Wayne Memorial Hospital.

Richard F. Fox, M.D '75, is a nephrologist in Greensboro, where he lives with his wife, Betsy, and two children. Fox writes: "the high points of this past year included dinner with **Jim Winslow** (M.D. '75), who was in Greensboro for the N.C. Academy of Family Physicians meeting. . . and dinner with **Frank Miller** (M.D. '75) during my trip to San Antonio for the American Society of Nephrology conference."

Donald G. Gregg, M.D. '75, says he is "taking life one day at a time" in Greenville, SC, where he practices emergency room medicine.

Mark M. Vogelhut, M.D. '75, chairs the anesthesiology department at Tallahassee Memorial Regional Medical Center. He is a member of the Florida Society of Anesthesiologists.

Bruce Berlow, M.D. '75, practices allergy and immunology with the Sanson Clinic in Santa Barbara, CA.

John P. Manzella, M.D. '77 (HS), is chief of infectious diseases at York Hospital, a 570-bed teaching hospital in York, PA.

Michael Curtis Alston, M.D. '78, lives in Murfreesboro, TN, and writes, "I have enjoyed my term as a member of the Alumni Council from District I."

Allen Edwards, M.D. '79, has been elected to a three-year term on the board of trustees of Davis Community Hospital, Statesville, where he is director of the emergency department. Edwards is also co-owner of Piedmont Medical Clinic in Charlotte.

80s

Lauren Cosgrove, M.D. '80, practices family medicine with a large multispecialty group in Atlanta.

Philip K. Dorton, M.D. '80, is chief-elect of the medical staff of Community General Hospital in Thomasville. He practices obstetrics and gynecology with Thomasville Ob-Gyn Associates.

Saundra Maass-Robinson, M.D. '81, lives in East Point, GA. She has been appointed to a three-year term on the Governor's Commission on Children and Youth. In addition, she is founder and chair of CHOICE (Committee to Help Overcome Impairment and Continue your Education), an organization for impaired medical students at Morehouse School of Medicine in Atlanta.

R. Carter Clements, M.D. '83, is assistant director of emergency medicine at Highland General Hospital in Oakland, CA.

Ronald Wade Cottle, M.D. '83, lives in Whiteville, where he practices family medicine.

Audrey Marie Urbano-Brown, M.D. '83, is assistant professor of emergency medicine at the University of New Mexico in Albuquerque. She is also an emergency room physician for the Gallup Indian Health Service.

Jan Roberts, M.D. '84, is a family practitioner for the U.S. Public Health Service on an Indian reservation in Crownpoint, NM.

Catherine G. Fuller, M.D. '85, has completed her residency in pediatrics at UCLA and is now training as a fellow in allergy and immunology at Children's Hospital of Los Angeles.

Milton H. Conley, M.D. '85, lives in Trenton, NJ, and is in his third year of surgical residency.

Patricia A. Michael, Ph.D-M.D. '87, has completed a two-year National Library of Medicine postdoctoral fellowship in medical information science at the University of California, San Francisco. She is a medical systems analyst in hospital information services at Rex Hospital in Raleigh.

Deaths
J. Albright Jones, M.D. '26
McChord Williams, M.D. '35
Margaret C. Swanton, M.D. '45
Robert Lee Tomlinson, M.D. '54
William Lee Crisp, M.D. '74
Tommy L. Wood, M.D. '81
Morris A. Lipton, M.D.

Drop Us a Line

Your classmates and medical school colleagues want to hear from you! Share your news (and catch up on what others are doing) through the pages of the *Medical Alumni Bulletin.*

Address your letters to:
Editor, *Medical Alumni Bulletin*
NCMH, PST 6003
CB 7600
Chapel Hill, NC 27514

Morris Lipton Dies at Age 73

Morris A. Lipton, M.D., Sarah Graham Kenan Professor of Psychiatry and founder of the Biological Sciences Research Center at the University, died March 15 at his home in Chapel Hill after a long bout with cancer. He was 73.

A graduate of the University of Chicago medical school, Lipton joined the UNC-CH faculty in 1959 as an associate professor of psychiatry and director of research development. He served as chair of the Department of Psychiatry from 1970-73. He was named a Sarah Graham Kenan Professor of Psychiatry in 1972.

Lipton became director of the BSRC in 1965. During his tenure, he built a nationally recognized research team to study biological causes for mental retardation, learning disabilities and related aspects of human development.

"With a brilliant and agile mind, magnetic charm and humor, deep compassion and an exquisite sense of social responsibility, Dr. Lipton has been a giant of psychiatry in the state and nation," said Stuart Bondurant, dean of the School of Medicine.

"He has been a major force in shaping this medical school. He leaves an indelible legacy in programs of patient care, in teaching and research, and in his influence on the careers of thousands of his students and colleagues."

Margaret Swanton, Cytotechnology Pioneer

Margaret C. Swanton, M.D. '45, one of the first female physicians to be named a professor in the School of Medicine, died at her home in Clinton following a lengthy illness.

Swanton's service to UNC as a student, researcher and faculty member spanned almost four decades. At one time a student of George Papanicolaou at Cornell University, she brought his uterine cancer dectection procedure—the "pap smear"—into wider use throughout North Carolina.

In 1961 she established the nationally accredited Cytotechnology Training Program at the School of Medicine to train professionals for cell pathology diagnostic work at N.C. Memorial and other hospitals throughout the state.

The School of Medicine acknowledged Swanton's contributions by presenting to her its highest honor, the Distinguished Service Award, in 1986.

Swanton received her undergraduate degree and her certificate of medicine from UNC; she earned her M.D. degree from Cornell University. She joined the medical school faculty in 1948 and was appointed professor of pathology in 1969. She retired in 1978.

CME/Alumni Calendar

Medical Alumni Activities		
October 6-7	Alumni Fall Weekend	Chapel Hill
November 8-12	N.C. Medical Society Fall Meeting	Asheville
Continuing Education		
June 23-25	Daily Anesthetic Challenges—1989 (Co-sponsored with Medical College of Georgia)	Hilton Head, SC
June 30-July 1	Pediatric Life Support Course	Chapel Hill
July 22	Immune Mechanisms and Therapeutic Strategies in Neurological Diseases	Chapel Hill
August 2-5	Pediatric Bronchoscopy Course	Chapel Hill
August 4-5	Pediatric Life Support Course	Chapel Hill
August 7-11	Learning Disorders Over Time: Description and Prescription from Preschool Through High School	Chapel Hill
September 15-16	Assessing and Facilitating Communications Skills: Infants, Toddlers, Families and Professionals	Chapel Hill
September 25-29	Third Annual Neonatal Transport Institute	Chapel Hill
October 28-29	George Ham Society Meeting	Chapel Hill

For more information about CME courses or alumni activities, write the Office of Continuing Medical Education and Alumni Affairs, School of Medicine, 231 MacNider, Chapel Hill, NC 27514 or call (919) 962-2118.

Nonprofit Organization
U.S. Postage
PAID
Chapel Hill, NC
Permit No. 24

PERIODICALS DEPARTMENT
HEALTH SCIENCES LIBRARY
CB 7585
CHAPEL HILL NC 27599

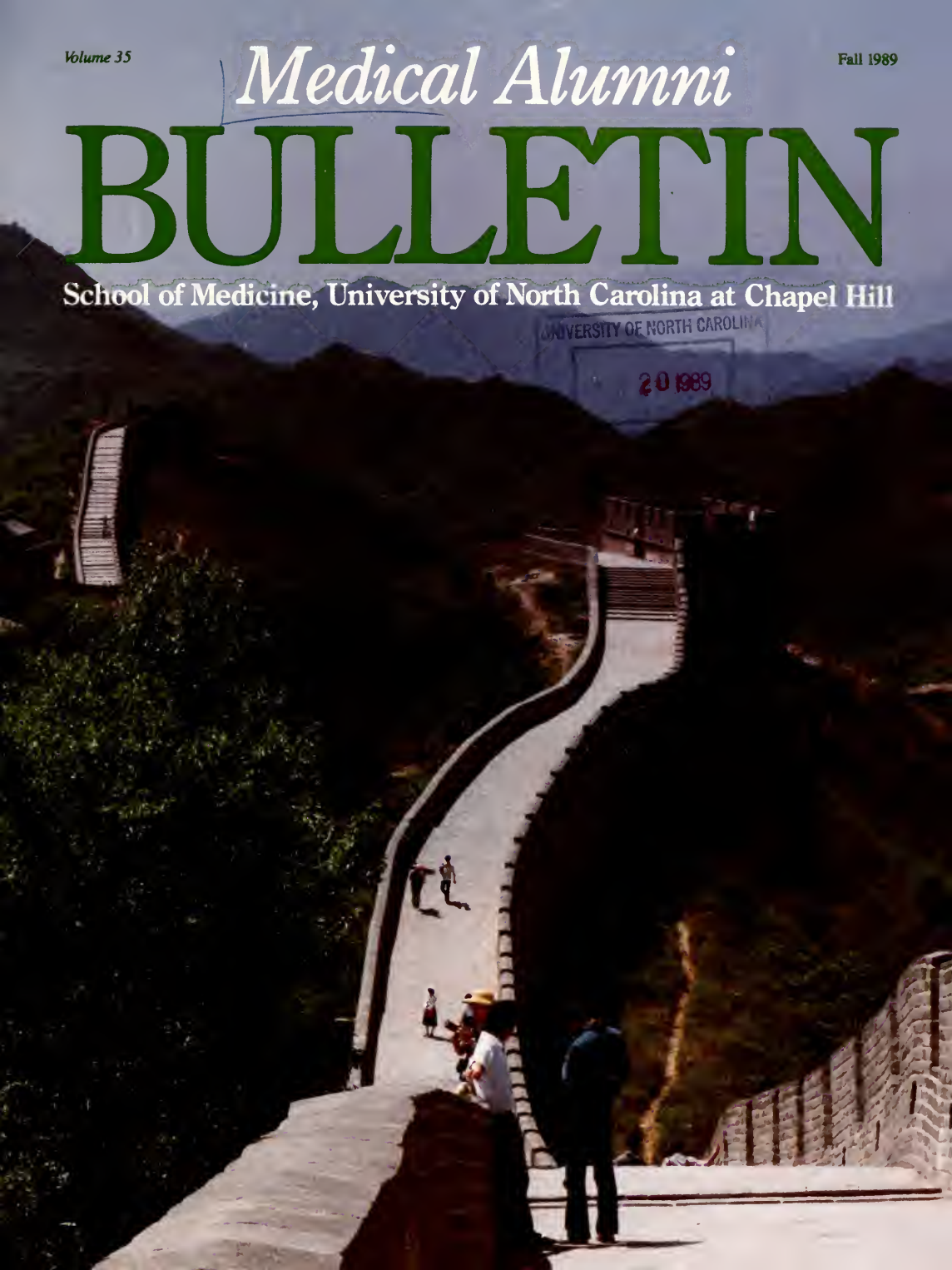
Volume 35

Medical Alumni BULLETIN

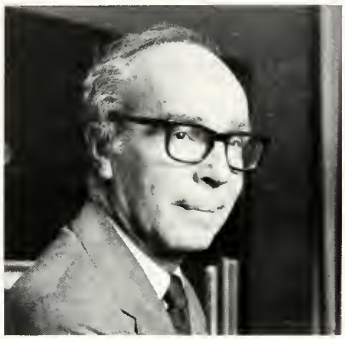
Fall 1989

School of Medicine, University of North Carolina at Chapel Hill

UNIVERSITY OF NORTH CAROLINA
20 1989



Dean's Page



It has become clear in recent months that conflicts of financial interests of practicing physicians and biomedical researchers, and even institutions, are eroding the credibility of biomedical research and the perception of integrity of medical practice. The business community has long since developed principles and practices (not always applied successfully) for dealing with real or perceived conflict of interest. Now, Congress and federal agencies are moving vigorously to impose arrangements or procedures which are intended to protect the public interest from potential adverse effects of conflict of interest in medical practice and research. In the clinical setting, these regulations will limit or prevent the physician's appearing to influence the use of medical facilities in which he has an interest by referrals to those facilities or organizations. In the research setting, the problem is illustrated by the clinical investigator who is a major shareholder in a company whose product he is testing with the support of a grant from the federal government.

From time to time the medical community has developed principles and practices for dealing with conflict of interest, as for example in the matters of fee splitting and dispensing drugs. But in neither clinical practice nor research have our arrangements provided some of the protections to third parties that are usual practice in business.

In my view, the practicing physician and the medical researcher have an obligation to the patient and to the research community, respectively, to make it clear that their actions are absolutely free of influence by personal financial gain outside of that which is recognized in the professional fee or the salary of the researcher. Thus, I support the coming requirement for disclosure of such collateral financial interests as a necessary, but perhaps not sufficient, step toward the elimination of actual or supposed exploitation. It seems likely that practicing physicians will be required to disclose their holdings in health care facilities or laboratories to which they refer patients and that investigators will be required to disclose their holdings in companies whose products are related to their work. Some have taken the position that clinical investigators should not have any relationship with companies whose products they are testing during or after the period of the study.

Many practices in medicine pose real or potential conflicts of interest which have not been widely recognized as such. For example, intragroup referrals are a keystone of one form of high quality care but can also involve conflict of interest when referral outside the group might be in the patient's interest. Risk sharing among professionals and institutions creates a purposeful conflict of interest designed (poorly, I think) to control costs. Compensation programs with year-end bonuses based not on productivity but on economical practice patterns similarly create a conflict of interest.

In an earlier, simpler time, physicians were guided by absolutist judgments. Various practices were either permissible or impermissible according to generally accepted standards or customs. Now, many practices are still considered either permissible or impermissible but many also fall in a gray zone of reasonableness contingent on specific features such as the practice of open disclosure.

The provisions for dealing with some of these conflicts of interest come late to the medical community as medical practice and research have become more business-oriented. As arrangements are put in place for assuring our patients and the public of sound ethical and business practice, I hope that we will be able to sustain the context of professional practice rather than accept further drift toward a system in which a commodity, "health care," is packaged and delivered for a competitive price.

Stuart Bondurant

Stuart Bondurant, Dean

Medical Alumni BULLETIN

School of Medicine, University of North Carolina at Chapel Hill

Alumni Publications Advisory Committee

Nancy C. Chescheir, M.D. '82

W. Grimes Byerly Jr., M.D., '50, *ex officio*

Gerald W. Fernald, M.D. '60

Daniel Gottovi, M.D. '71 (HS), *ex officio*

George Johnson Jr., M.D. '50

Janice C. Keene, M.S.

Kenneth J. Levin, M.D.

William S. Pollitzer, M.D.

David A. Rendleman, M.D., '70, *ex officio*

John W. Stokes, *ex officio*

William E. Easterling Jr., M.D., '56, *ex officio*

Editor

John W. Stokes, *Director, Institutional Relations*

Contributing Editors

Dick Broom

Val Lauder

Leslie M. Purcell

Michael A. Wagoner

The *Medical Alumni Bulletin* is published four times annually by the University of North Carolina at Chapel Hill Medical Alumni Association, Chapel Hill, NC 27514. Postage is paid by the non-profit association through U.S. Postal Permit No. 24. Address correspondence to the editor at North Carolina Memorial Hospital, Room 6019 PST, CB #7600, Chapel Hill, NC 27514.

Contents

Features

China: UNC Physicians Explore Ancient Land in Transition 2

Spicer-Breckenridge Lecture Focuses on Building Partnerships 9

Trauma System in Action 10

Swing Building Gets a New Name: Isaac M. Taylor Hall 12

Alumni Endowment Board Up and Running 15

First Brinkhous Professorship Awarded 16

UNC Grad Tells What It's Like To Practice Medicine on an Island 18

Profile on the New Alumni Association President 32

Departments

Dean's Page . . . . . Inside Front Cover

Faculty Notes 20

News Briefs 24

Class Notes 30

President's Letter . . . . . Inside Back Cover

Alumni/CME Calendar . . . . . Back Cover

On the Cover

The Great Wall was the premier tourist stop for a delegation of UNC faculty members who visited the People's Republic of China. This view is taken near Beijing. The structure meanders for more than 3,000 miles across China. An informative daily journal of the "China Visit" begins on page 2 of this issue of the *Bulletin*. (Photo by J. Chang, D.V.M., associate director, Laboratory Animal Medicine.)

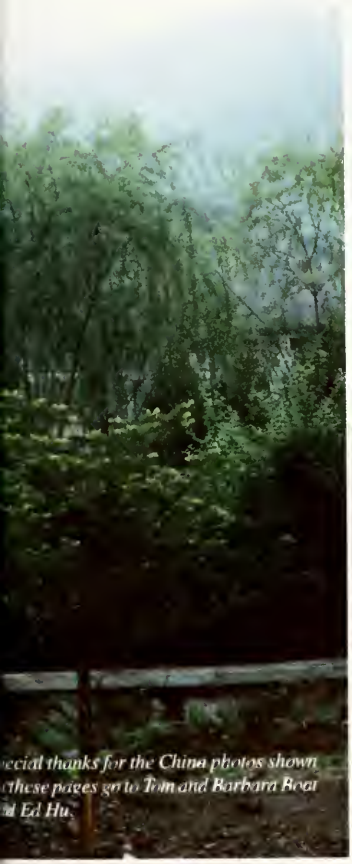
Dateline: China

A splash of the Chinese scenery in Liaoning Province, about 40 miles from the Yalu River and the North Korean border.

'I am wishing we could do more for these doctors . . . I believe there is genuine admiration and affection from both sides.'

The accompanying journal records daily activities and impressions of a small delegation of faculty from the School of Medicine who recently visited the People's Republic of China.

This account provides a personal view of modern China, as told by Thomas M. Boat, M.D., chair of pediatrics... with "considerable editorial assistance" from Barbara W. Boat, Ph.D., child psychiatry.



ecial thanks for the China photos shown
these pages go to Tom and Barbara Boat
d Ed Hu.

Days-1 & 2

Off to China! What an extraordinary adventure. The long flight is tolerable only because of what lies ahead. Spirits of the group are good, with fun conversations and informal, congenial introductions of non-faculty travelers. Party on way to Hong Kong includes Dr. Ping-Chuan "Ed" Hu—Pediatrics; Dr. Jerjang "J" Chang—Animal Medicine; Dr. & Mrs. (Anne) Gerald Fernald—Pediatrics; Dr. & Mrs. (Mary Gay) Albert Collier—Pediatrics; Dr. & Mrs. (Rebecca) Ned Lawson—Pediatrics; Dr. & Mrs. (Jan) Larry Silverman—Pathology; Drs. Barbara & Tom Boat—Psychiatry & Pediatrics, joined in Hong Kong by Drs. Shai Mai and Darrell Stafford, Biology Department.

Arrive in bustling Hong Kong at 8 p.m. Clearly, they welcome foreigners. Many shops open on Sunday night. The neon signs create a carnival-like atmosphere.

Day-3

Leisurely Monday morning—reading, watching Michael Jordan beat the Knicks almost single-handedly on CNN's recap. It is Mother's Day in Chapel Hill.

Much speculation about what life will be like when Hong Kong becomes a part of the People's Republic of China in 1997—consensus within our group that the wealth and level of commerce will be too attractive for China to change.

Back to airport for the flight to Beijing, then Shenyang.

Interesting to watch flocks of passengers scurrying from one gate to another as announcements are made, then recanted. Many Chinese seem driven to be first in line. Line jumping, elbowing, rushing to get to the head of the line are distinct features of airport life, and certainly speak to the aggressive nature of China's travelers. We spend more than 10 hours in the Beijing airport.

The UNC delegation visited the Shenyang day care center that serves 400 hospital employees.
Left: The 6-year-olds made fast friends with Darrell Stafford, professor of biology. The young artists presented their drawings to the group.
Below: Toddlers performed playtime activities for their guests.

On the bright side:

1. Our hosts (from Shenyang) order a superb dinner in the airport restaurant. We sample 12 dishes. Dinner characteristically ends with soup. Several struggle with chopsticks.
2. We break out our bottle of Cognac (Camus) bought in the duty-free shop in HK and relax in a corner of the waiting room.
3. Good humor and spirits prevail as we experience what is to become the motto of our trip: "Ben Hua" or "things change."

On the uncertain side:

1. We have no idea if anyone will meet us when we arrive at the Shenyang Airport as originally planned.
2. The beer with dinner is warm but excellent tasting.

Day-4

Take off from Beijing at 1 a.m. Rough trip. Arrive to an empty Shenyang Airport at 2:30 a.m. However, the airplane parks 200 meters from terminal even though rain and wind are substantial factors. Met by International Program Director of China Medical University (Dr. Wong). We have been on road more than 60 hours. The Guest Quarters in Shenyang looks like heaven. Hot green tea awaits us.

Awaken to many honking horns and expect to see Manhattan-like auto traffic. Instead, a constant flow of bikes with jangling bells and a few cars continuously honking the bikers out of the way. Many more Mao suits here than in Beijing. Air smells like Cleveland. This is industrial China!

Picked up at 1:30 p.m. by five cars and whisked (litera y) to China Medical University (CMU). Greeted formally by Vice President Sun, who has a remarkably radiant smile, and other officials. Escorted into a conference room with oval table. After introductions and tea service, we hear a concise history of CMU from Dr. Sun via interpreter (Mr. Tian) who directs CMU's English Department and spent a year at a small college in Arkansas. CMU buildings are those of the former Japanese Medical School. An English-speaking medical school also was amalgamated into CMU. CMU is one of 14 select medical schools supported by the Ministry of Health.

A walking tour of the campus includes: 1) the Department of Cell Biology, 2) the Brain Institute, and 3) the library. Several scientists briefly present their work. Equipment ranges from primitive to state of the art cell separators and electrophoretic equipment. The Cell Biology Department has a transmission electron microscope. The library carries more than 1,000 English journals, about 500 in Chinese. The most recent journal issue is often 8-12 months old. Many journals are bound copies of reproductions. The librarian tells us proudly that 50 percent of requests are for English journals, 25 percent for Chinese, and 25 percent for Japanese. With a smile, he notes that less than 1 percent request Russian articles.

There are 4,000 students and 6,000 staff. Half of the 6,000 appear to be M.D. faculty.

At 6 p.m. we are guests at our first Chinese banquet. We sit at three beautifully appointed round tables with the traditional "lazy Susan" in the middle. The guest of honor is seated to the host's right, always facing the door (to prevent attack). The evening is filled with "protocol," but is relaxed with much

UNC doctors visit the children's ward at the China Medical University Hospital in Shenyang. They note that the children are incredibly disciplined in their behavior—no crying or fussing.

Above: Shown outside the Hospital of Union Medical College in Beijing are, from left: Ned Lawson; Tom Boat; Dr. Zhao, current director of pediatrics; Ed Hu; Dr. Song, professor of pediatrics; Dr. Chou, former director of pediatrics; and Albert Collier. Right: The 4-year-olds at the CMU day care facility were busy playing "barber shop."

laughing, bantering, etc. Many toasts offered with beer, sweet red wine, and a ginlike Chinese liqueur (Ned Lawson called it "Mao Tai") in small glasses that is drunk "bottom's up" as our Chinese hosts insist.

Dr. Sun offers gracious toasts with a sip of red wine. He explains that, like most Chinese, his alcohol dehydrogenase system is not very effective. Indeed his face flushed with "Chinese sunburn" after several sips. Zi Gao, vice president of the Liaoning Association for Cultural Exchange, however, suffers no such ill effects and we lose count of his "Mao Tai" toasts.

Gifts are exchanged. We present *The History of the UNC School of Medicine*, 200th anniversary medals from UNC, a plaque commemorating this exchange, and a silver necklace for Dr. Sun's wife. American guests are given small Chinese folding screens and beautiful silk scarves.

Additional observations on Shenyang:
1) Drivers literally plough their way through the sea of bicycles, honking their horns continuously. The bike riders display no anger. Indeed, they simply drift apart, never glancing at the drivers. We see no accidents, but there are many close calls. As we return from the banquet, thousands of students are walking to the square to demonstrate. We ask our interpreter what the people think of the demonstrations. He replies, "I personally don't think that the workers (whom the students are trying to attract) understand why the students are doing this (i.e. asking for democracy and a multi-party system)." Further, he states that the 1.1 billion people in China are not ready to work within a democracy. "We are too young at politics."

Day-5

We are distinctly foreign. As soon as we step outside our hotel wall, the Shenyangese stare unabashedly, lifting up their small children to view us and gathering around us in small crowds. They only stare and do not speak. The delegation is greeted at 8:30 a.m. by Vice President Sun and members of the Pediatric Faculty. The peds facility totals 350 beds including 190 for medicine, 85 for surgery and others for healthy newborns and special programs. Three thousand outpatients per week are treated in their clinics. A Division of Child Health Care is set up to provide well-child care and counseling. The hospital also has a day care center for 400 children of employees.

We visit the neonatal intensive care unit, critical and intermediate care areas and a step-down unit. Two babies were on ventilators, one for apnea and one for respiratory distress syndrome at 12 hours of age.

We are told that they have no BPD (Bronchopulmonary Dysplasia). Interestingly, none of the babies we see are less than 1800-1900 gms in weight, suggesting that very premature infants are not resuscitated or transported to the medical center. This could explain why so little chronic lung disease of infancy is seen. Interestingly, we are required to remove our shoes and put on sandals, but no precautions are taken to protect the babies from infectious diseases—e.g. gowns, masks, strict handwashing. We did put on white coats, but these were worn throughout the hospital.

We visit a cyanotic child with chronic lung disease including "bronchiolitis and lung fibrosis" in the critical care unit. When the possibility of cystic fibrosis is raised, there is no recognition of the name.

On the surgical and medical wards children are lying or sitting in their beds quietly. They appear incredibly disciplined, with no crying or fussing. A few of the older children are playing cards.

In the afternoon I give a lecture on "wheezing infants" to about 35 assorted faculty and house staff. The translation extends a 40-minute talk to an hour and a half. The young doctors (residents) have the best command of English and understand my lecture better than the translator.

Dr. Sun signs an exchange agreement between the CMU and UNC medical schools that outlines plans for more collaborative ventures.

In the evening, our group sets out for a walk only to encounter an impassable crowd. Shortly thereafter a parade of student demonstrators marches by. This group, numbering several thousand, is from CMU. The students occasionally chant the equivalent of "democracy now" but are not sullen or angry. In fact, there is much laughing, and apparent enjoyment, and modest applause from the onlookers, largely workers.

Day-6

The day begins with a Chinese breakfast—rice gruel, assorted cold vegetable dishes, and a long fried bread that is delicious. We stop by the 400-child day care center. The infants receive seven minutes of "passive exercise" several times a day. The toddlers are seated in chairs against the wall when we arrive. They greet us by clapping and perform one of their play drills in which the small ones hop over a crepe-paper string to pick up nuts, put them in a bucket and carry them back to their chair.

The older ones (2-3 year-olds) don frog caps and hop down a string of wooden lily pads placed on the floor. The 4-year-olds are engaged in representational play, with some running a barber shop while others tend a grocery store. They are regimented but responsive—talking spontaneously amongst themselves and interacting with us. The teachers seem warm and supportive, but more directive than their American day care/nursery school counterparts.

Mothers come over to breast feed their babies during the day. Workers on the night shifts also bring their children to this center. The Chinese are well ahead of us in providing an appropriate environment for children of working parents—something our hospital badly needs to address.

The rest of the morning is spent in lecturing (B. Boat, Fernald, Collier, Hu, Silverman) and discussions/rounds (T. Boat, Lawson). The pulmonary faculty are surprised that we don't use the terms bronchial asthma, asthmatic bronchitis, and infantile asthma to distinguish what they think are distinct entities. The term "reactive airways," which is popular in most of the rest of the world to describe reversible airways-obstruction (asthma) is not used here.

Later we are asked about suggestions for improvement of clinical service. Points mentioned are: Cultures for chlamydia and mycoplasma, sweat chloride-analysis (they need equipment), otoscopic exam of the ear, and blood gas analysis of newborns with respiratory distress. (No umbilical catheters or arterial punctures are used.)

In the afternoon, we visit the Imperial Palace and the North Tomb of the Second Emperor of the Ching Dynasty. Both are impressive but not well maintained. Shenyangese are very proud that they spawned the Ching Dynasty, even though only the first two emperors headquartered here.

The most memorable part of the day is the student demonstrations. We see throngs of demonstrators, especially in front of the City Government Building. There are approximately 19 universities in Shenyang and their students as well as many faculty are on the street. In general, the scene is controlled—except for traffic—and good will prevails. Our bus driver tries to push through one demonstration from the rear by leaning on his horn and several demonstrators challenge our right to proceed. The bus driver manages to negotiate a U-turn through the crowd, and we relax. Bus drivers here like to play "King of the Road," but our concern is that their aggressive behavior will reflect negatively on Americans, as it is abundantly clear who is riding the bus.

The banquet that night, sponsored by the Science and Technology Commission, is a typical Mr. Gao affair. Many toasts, much good will, much laughter. The food is overwhelming. The restaurant specializes in dumplings. It is clear that Mr. Gao would like to head up a return Liaoning Province delegation to North Carolina, although his chances of obtaining clearance and resources are uncertain. Also at the banquet is the Minister of Agriculture who has been to NCSU. He is introduced as the developer of a superior rice that also promotes urination (rice with diuretic properties?).

Day-7

Today is for sightseeing. Thirteen of us pile into a small Toyota van with a crazy but skilled driver and head for the mountains and a water cave northeast of Shenyang. We experience engine failure five minutes from the hotel. Everyone piles out in the rain. The consensus is a plugged fuel filter. With help from Albert Collier, our driver replaces the filter and we are off. Memorable scenes include:

Rice fields at planting time; craggy, green mountains—unlike anything in the U.S.

Bigger and newer homes in farm villages than in the city.

Chinese bathrooms that require stable squat and suppression of olfactory input.

Day-8

The entire delegation meets with our Chinese hosts to sign a working agreement drawn up by Dean Bondurant. The formalities last one hour. Drs. Fernald, Hu and I spend the next two hours with Vice President Sun outlining details of a working plan for future collaborative ventures.

Our interpreter, Mr. Tian, tells me that the PRC government has sent the army into Beijing to clear the demonstrators and students who are fasting from Tiananmen Square. "There will be no more demonstrations," he says. He is concerned that the party and government have lost considerable credibility. All of us are wondering what comes next.

Day-9

We take an early a.m. walk through the park next to the Guest Quarters, and this proves to be one of our most fascinating Shenyang experiences. We encounter numerous groups practicing Tai Chi, other elderly men and women exercising with swords and still others stretching or pummeling various parts of their body with their hands. About 500 are doing an oriental version of aerobics to music, known locally as "Old People's Disco." Old men are airing and exercising their birds. Many couples hit badminton birdies and children play on swings and slides.

In the afternoon everyone from CMU comes to say goodbye and take us to the airport. Farewells are prolonged and wistful! We receive an album with pictures taken by the CMU photographer. I am wishing we could do more for these doctors right now. We are told that ours has been the "best delegation to CMU" because we didn't talk down to them. I believe there is genuine admiration and affection from both sides. We feel committed to assisting our new colleagues however possible.

In the Shenyang Airport awaiting a plane for Xian. Considerable uncertainty prevails concerning the upcoming week. We should have no trouble in Xian, but Beijing is another story. The students, including fasters, have not left Tiananmen Square. Up to 30,000 troops have been called in but are positioned outside the city. As best we can

piece things together, the older conservative faction of the party has gained the upper hand and the more liberal general secretary of the party (Zhao) is out because he has been "soft on the students" and encouraged political as well as economic reform.

There is speculation that if the army doesn't move soon, the conservative take-over will not last and a new party structure may be in power by later today or tomorrow. Meanwhile, in Shenyang—which is reputedly conservative—there are 200,000 students on the street.

Day-10

We arrive in Xian, the city of emperors past, in central China. We are met at the airport by Miss Li, who works for the Xian Branch of The Science and Technology Commission, in charge of foreign affairs.

This morning we board the bus for the Qin tomb and recently excavated terra-cotta figures, an incredible archaeological find. Next, to the Hot Baths at base of the mountains. The first building was erected about 2,000 years ago with add-ons over the centuries by subsequent emporers. Finally to the embroidery factory where we buy out their supply of silk tie-dye scarfs.

We are frustrated by the refusal of many places (government-run especially) to accept yuan, the local Chinese currency. They only want foreign exchange currency and will charge twice as much if we pay in yuan.

Day-11

The day brings more sightseeing and shopping. We visit the Big Wild Goose Pagoda and climb the seven levels to view Xian and the mountain range to the west. This Buddhist shrine was built about 600 A.D. It is virtually impossible to comprehend how old things are.

Day-12

We are now on the CAAC plane for Beijing, a larger and more comfortable plane with good air circulation. We called the embassy yesterday about the demonstrations in Beijing. Most restrictions have been relaxed, although Tiananmen Square remains occupied and the Forbidden City is closed. Picked up a booklet (copyright, 1989) in the hotel entitled *China Tackles Reform.* It explains the currently projected path of socialism: maintenance of the Communist Party structure, people's democratic dictatorship, and Lenin/Mao philosophy. It discusses the dangers of those who want to revise faster or more extensively, and states that erroneous trends in this direction have been corrected.

Clearly, there is controversy within the party, and power struggles are subliminal but very real. Secretary General Zhao has not been heard from for five days, but he has not officially been deposed. A prominent piece in the China Daily yesterday quoted the Hungarian premier as saying an army should never be used against its own people.

Day-13

First day in Beijing gets mixed reviews. Our hotel room has at least a month's accumulated dirt and crumbs on the floor. No mirror or light on the dresser, a dirty bathroom, filthy windows, etc. I try to plug in the Lawsons' travel iron and the outlets aren't connected, so I unplug the TV and can't get it reconnected. When I try to move

Left: Among those making rounds with attending physicians at the CMU hospital are Ned Lawson, Tom Boat and Gerald Fernald.
Below: Sight-seeing stops included this vista of the summer home of the Dowager Empress in Beijing.

the bed's headboard, looking for an outlet behind, the headboard falls off and demolishes our telephone and bedlights. We are served squid, sea cucumber and bovine stomach for two meals in a row.

However, we are here at an exciting time. We walk to Tiananmen Square to see the demonstrators who fill the area, sleep in tents and buses, and move out in groups to demonstrate. No sign of the army and very few police.

Day-14

This is a work day. In the morning we are greeted by Dr. Zhang (rheumatologist), Dr. Chou (former director of pediatrics) and Dr. Zhao (current director of pediatrics) at Peking Union Medical College. An overview of the school and department reveals that the school was built with Rockefeller money. It is a small, exclusive school. Nearly everyone speaks fluent English.

The Department of Pediatrics is small (30 beds, 11 faculty, 10 residents) but excellent. Along with the usual pneumonias, they have admitted a child with dermatomyositis, two with Henoch-Schoenlein purpura and an infant of a diabetic mother.

Discussion with the faculty includes speculation concerning the effects of the national "one child" policy on genetic and neonatology programs. The policy is actually "one healthy child," so that if parents have a defective child (genetic or acquired) they are permitted to try again. Obviously, counseling the parents concerning the likelihood of a second genetic "hit" becomes crucial and accounts for the emphasis placed on genetic diagnosis and counseling here. Also, it becomes clear why the Chinese are not interested in resuscitating very premature infants—the chance that they will suffer developmental deficits is great.

The afternoon is spent at the Capital Children's Hospital. We tour the wards with Dr. Song and Dr. Cheng, a pulmonary and asthma specialist.

Evening brings a banquet at the Roast Duck Restaurant near the medical college, which students tongue-in-cheekly refer to as the "Sick Duck Restaurant." The meal is fantastic with duck served in every form: foot webbing, livers, gizzards, and tongue, all made into tasty dishes. For the main course, duck is rolled into pancakes or placed in the pocket of sesame cakes (duck burgers).

Dr. Song's story: She, her husband (who sat at Kissinger's side when Nixon visited China) and their two children (teenagers) were sent to separate places in China during the Cultural Revolution. She saw her husband for one hour in five years. Nearly all scholars and intellectuals were dispersed to the countryside. As the medical faculty share these experiences, there is obvious sadness as well as fear of return to those days.

Barbara Boat addresses Chinese medical students and faculty.

The Little Emperors: We have a long discussion with Tsang Jeline (Jennie)—our young hostess from PUMC. She expresses a frequently heard concern that the single child is "spoiled" by the parents and grandparents. She believes the new generation will not want to be laborers or to care for their elders, and will have a difficult time making the transition to adult/independent life.

Barbara and I argue the possibility that these privileged children will learn social skills in school/day care and that they will be a very creative, achievement-oriented generation. We are in the minority, but clearly the one-child policy presents the world with an important social experiment.

We recall an expression used by our hosts during the course of the day: "Iron Rice Bowl." The term refers to the work status of government employees. Even if their bowl falls to the floor, it never breaks—i.e., no matter what they do, they still get paid. This policy seems to be the source of much of the poor service and the lack of maintenance that we encounter in Beijing.

Day-15

We leave bright and early for the Great Wall—a two-hour bus ride. The mountains are gorgeous and the wall impressive, not only by virtue of its size but by its meandering across impossible terrain. Several of us walk to the end and then along the unrestored section. Some sections have survived two-plus millenia.

Day-16

The day is hot and hazy. With no effective air conditioning, people are complaining. Jerry, Albert and I go to the Children's Hospital. We see the PFT labs—well equipped with modern computerized spirometer, treadmill, mass spec and a new machine for delivery of cold air to test airway reactivity. All the equipment is German. The pulmonary doctors are giving killed polio vaccine weekly by mouth to asthmatics to decrease susceptibility to viral respiratory tract infections. Dr. Cheng defends its efficacy on an anecdotal basis but admits that no controlled studies have provided evidence that it helps.

We meet with about 30 staff and house staff to discuss two cases: A 5-year-old child with spiking fevers for six months, most likely systemic rheumatoid arthritis, and a 10-month-old with severe neurodevelopmental delays, multiple stigmata suggesting a chromosomal abnormality, and recurrent pneumonia with wheezing, probably on an aspiration basis. The group is most responsive and appreciative. This is gratifying.

The last day

Dragon Air is a disaster on the ground (pandemonium checking in) and a joy in the air. New plane, attentive attendants, wonderful food and wine. Hong Kong, which appeared crowded and dirty 16 days ago, looks like the Pearl of the Orient coming home. There have been huge demonstrations (more than a million people) supporting the Chinese students today; seven million assistance dollars are raised. There is no doubt that the citizens of Hong Kong are concerned about their future.

This has been a magnificent trip which could not have been done in a more meaningful way. We saw a good bit of China and, more importantly, made many friends and professional contacts who will enrich our lives in the years to come. China must be experienced to be real; only then does it capture a place in one's life. We are ready to return, but acknowledge that it is easier to be in China when you know Chapel Hill and UNC are your home.

Postscript: Five days after leaving China, the army moved into Beijing, shot indiscriminately into the crowds and cleared Tiananmen Square. How many of the faces we saw there no longer exist? Will the medical school faculties and student bodies get back to business as usual? Will they be allowed to leave China and spend time with us?

Will the China that we experienced—open and optimistic—ever be the same again? "Ben Hua," ("things change") our group's favorite phrase while in China, once more comes to mind.

Medical Schools Need To Develop Community Partnerships

The annual Spicer-Breckenridge Memorial Lecture commemorates two members of the Class of 1939 who died in military service during World War II: Emmet Spicer of Goldsboro and Arnold Breckenridge of Chapel Hill.

1989 marked the 50-year anniversary for the 16 living members of the Class of 1939, so it was entirely appropriate that "one of their own"–Henry T. Clark Jr., M.D. '39–was selected to deliver this year's Spicer-Breckenridge lecture.

"When you get down to basics, there are four quality measurements for any successful medical school: its teaching, patient care, research and community partnerships," said Henry T. Clark Jr., M.D. "Often, the most neglected area is the fourth dimension, the formation of community partnerships."

Clark, a vice chancellor of Health Affairs at UNC from 1950-65 and now retired, delivered the annual Spicer-Breckenridge Memorial Lecture at the School of Medicine's annual spring Alumni Weekend. As a medical center administrator and international consultant, Clark devoted more than 40 years of his professional career to developing positive and lasting university-community relationships.

Clark told his fellow UNC graduates that it's never been more important than it is today for medical centers to avoid the traps of an "ivory tower" mentality.

He recalled a story of an ivory tower medical center in another state that focused inwardly on teaching, research and high faculty salaries. One day the medical center found itself in the midst of a financial crisis: "Salaries were frozen, physical facilities were neglected, morale had deteriorated, and patient care programs were suffering." Furthermore, he said, "the medical establishment was almost alone in its misery because it had alienated the community's medical practitioners and the city fathers."

> "These joint projects often enhance the basic teaching and research programs of a university, rather than dilute them. They are almost always in the public interest."
>
> Henry T. Clark Jr., M.D.

Clark said the answer to the problem involved transforming the medical faculty's idealistic and somewhat selfish view into a larger, more realistic one. "It meant forming a partnership with the city fathers and several health agencies to support indigent patients, forming another partnership with selected local practitioners to refer private patients, and eventually making the medical center the central point of a regional health care program.

"These joint projects often enhance the basic teaching and research programs of a university, rather than dilute them. They are almost always in the public interest, and they usually win great respect and support for the university from the people who are served," Clark said.

Clark

"The general public begins to see some possibilities for the fulfillment of its dream: *good quality* health care, rendered with compassion, available to all the people at a *price* they can pay.

"We are far from having a health care system in the United States that can fulfill that dream. Our schools of medicine must help point the way toward a more effective U.S. system."

While the trauma program at the UNC medical center is a superlative instrument for saving lives, the cost of trauma services is substantial. It has been estimated that financial costs associated with trauma in the United States may be as high as $100 million a year. The financial impact at the patient level is illustrated by this tabulation of charges related to the case described in the accompanying article:

Item	
Anesthesia	
Blood, blood products	600
CAT scans	300
Dental clinic	30
Diagnostic Radiology	1,900
EKG	30
Emergency Room	400
[illegible] Transportation	700
[illegible]	900
[illegible]	2,500
[illegible]	2,000
[illegible]s	2,800
[illegible]al fees	6,400
Medical/[illegible]	1,000
Pharmacy [illegible]	1,400
Physical/Occ[illegible] Therapy	400
Pulmo[illegible] Services	3[illegible]
Sterile [illegible]	1,[illegible]
Surgery/Op[illegible]ng Room	[illegible]
TOTAL	**$24[illegible]**

Photo by Dan Crawford

The Trauma System In Action:

Saving the Life of a Critically Injured Patient

By George F. Sheldon, M.D.
Professor and Chair of Surgery

Time: **9:08 p.m.** The telephone rang on the flight watch desk at North Carolina Memorial Hospital.

It was a call from the dispatcher at the Orange County emergency communications network to advise emergency personnel of a serious car-train collision in a remote section of the county. The call activated the hospital's trauma network.

Orange County rescue workers who arrived on the scene reported that the driver of the car was seriously injured, and to complicate matters, he was pinned inside the vehicle.

9:16 p.m. The paramedics on the scene—Bruce Davis and Cherie Strathern—requested helicopter transport for the victim. The paramedics skillfully extricated the 23-year-old victim, protecting his spine and starting an I.V. line.

Within minutes, the Carolina Air Care helicopter was air-borne. Pilot Rick Bailey was at the controls flying toward the accident scene. With him in the aircraft were Roger Tangerose, flight nurse, and Bill Mattox, paramedic.

At the same time, the hospital Emergency Room staff led by Sally Trued, M.D., associate director of emergency medicine, began preparations to receive the severely injured patient. Nurses, headed by Nancy Patriarcho, R.N., readied the 'trauma room," a special intensive care area that features state-of-the-art, life-saving equipment.

Blood was obtained from the blood bank. The entire trauma team—surgeons, anesthesiologists, respiratory therapists, radiologists and other operating room personnel—stood ready for the arrival of the victim.

9:32 p.m. Carolina Air Care crew arrived at the accident scene. They reported that the patient was sinking into severe shock. He was pale and having trouble breathing; blood pressure was low. He had suffered the kinds of injuries that could cause death by hemorrhage and respiratory distress if they were not dealt with immediately and properly.

9:42 p.m. The helicopter with the victim aboard was en route back to N.C. Memorial. Communications between the flight team and the emergency staff intensified.

9:51 p.m. The aircraft touched down on the hospital's helipad. The return flight was nine minutes; an ambulance ride would have required about 30 minutes. Minutes are never more precious than they are in trauma cases.

The patient was rushed to the Emergency Room where Mark Hennington, M.D., senior surgery resident, evaluated the extent of injuries and discerned that the patient had suffered lung and head injuries and was in shock.

Acting decisively, a chest tube was inserted to relieve the respiratory difficulty. Additional large bore I.V.'s were started and six pints of fluid were infused quickly to restore circulating blood volume.

Within a very few minutes, it was obvious that the patient had a severe intra-abdominal hemorrhage, probably a ruptured spleen. He needed to be moved quickly to the operating room.

In the OR, a team of five nurses, five anesthesiologists and four surgeons was standing by. The injured spleen was removed. The operation took about two hours.

The patient, who had multiple fractured ribs and head injury, stabilized in 48 hours in the intensive care unit, where another collection of nurses, fellows and respiratory therapists continued his care. Soon after that, he was transferred out of intensive care to begin the recuperation process.

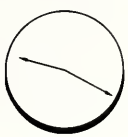
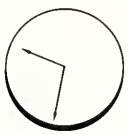
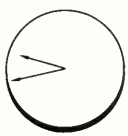
Injury or trauma is the most common cause of death in the age group under 41. It is responsible for more hospital days than cancer, heart disease and stroke combined. It accounts for more hospital days than child delivery, including hospital time for both mother and child.

The costs associated with trauma in the United States may reach $100 million a year. Thus, trauma has earned the sobriquet: "the neglected epidemic of modern society." More than 100,000 people die annually of trauma-related injuries, and the majority are young.

For this reason, we're especially pleased that this patient is still alive. The odds of survival in train-car crashes are not in favor of the occupants of a car.

The team concept of patient care is exemplified in the care of trauma patients. This man's life was saved because of the superb efforts by many caring professionals and because we now have in place a system that allows us to optimize our skills and abilities.

The significance of all this crystalizes when we consider that five years ago this story most likely would have had a different ending.

Dedication of Taylor Hall Is Tribute to Former Dean Who 'Changed the Landscape'

Former Dean of the School of Medicine Isaac M. Taylor, M.D., will be honored October 6 when the Swing building is formally dedicated as Isaac M. Taylor Hall.

According to William D. Huffines, M.D., associate dean for basic sciences and medical allied health professions, the Swing building, which opened in 1970, was never officially named.

"It was designed as swing space, so new faculty could swing in and swing out," he said.

"It's not the biggest building on the medical school complex, but none has had a greater impact—the need for space was so keen," said James R. Turner, retired associate dean for administration.

"Swing was the product of pure imagination," added G. Philip Manire, M.D., Kenan Professor of Microbiology and Immunology. He provides much of the history of Taylor Hall:

In 1965, Dean Taylor sought to remedy the need for adequate research space but also saw no evidence that state appropriations would be forthcoming for construction of research facilities.

He met with Watts Hill, university trustee who chaired the committee on health affairs, and they developed an idea for a novel solution. Others were brought in, including Oscar Ewing, Ed Yaggy, Collier Cobb Jr., Sandy McClamrock and Howard Holderness. They established Medical Research Properties, Inc.

The state deeded six acres to the corporation which borrowed funds from North Carolina insurance companies to build a five-story building with an area of more than

Dr. *Taylor*

42,600 square feet. The 25-year loan was to be repaid from rental funds derived from federal grants and other sources. When fully paid for in 1990, Taylor Hall will revert to the university.

"The idea was to rent space to people who had research grants—creative financing and entirely appropriate," said William Cromartie, M.D., Alumni Distinguished Professor Emeritus of Microbiology and Immunology and Medicine, who retired in 1975.

Turner added that this method of financing was approved by the National Institutes of Health, and "we were the first in the country to employ it. Ike Taylor deserves full credit for the vision and the energy to see the project through."

John B. Graham, Alumni Distinguished Professor of Pathology, said the opening of Swing in 1970 spelled relief for researchers in the basic sciences. "The place was so covered with trailers—and I was in one of the first ones— it was the biggest mess you ever saw.

"Ike Taylor completely changed the landscape," Graham added.

Swing was the first visible sign of a long-range building plan for the medical center that Taylor steered through legislative channels. Ten buildings or major additions followed in the decade of the 1970s, culminating with the opening of the Faculty Laboratory Office Building in 1978.

"No one was better than Ike at recognizing opportunity and then seizing it," Graham said.

"In the mid 1960s," Huffines recalled, "interest in medicine in this country was exploding rapidly."

And in Raleigh, the General Assembly was concerned about having enough doctors

to serve citizens living in rural areas. A legislative "Committee on the Shortage of Medical Doctors" was convened, headed by Hugh Johnson Jr.

"Representative Johnson ran a hardware store in Rose Hill," Cromartie said. "The dean would sit around for hours down at the hardware store, the two of them talking about what the medical school was trying to do."

"Ike believed the medical school had a special obligation to the people of this state," said I. Glenn Wilson, special assistant to the dean and professor of social medicine.

"This was a public place that existed to serve the people. And with this in mind, he went to Raleigh to obtain the fuel for the rocket."

> **"...there has been remarkable progress ...the school is indeed launched in a new era, the potential of which is very great...the past is prologue, we will see what the future brings...I think it will be good."**
>
> Isaac M. Taylor, M.D.

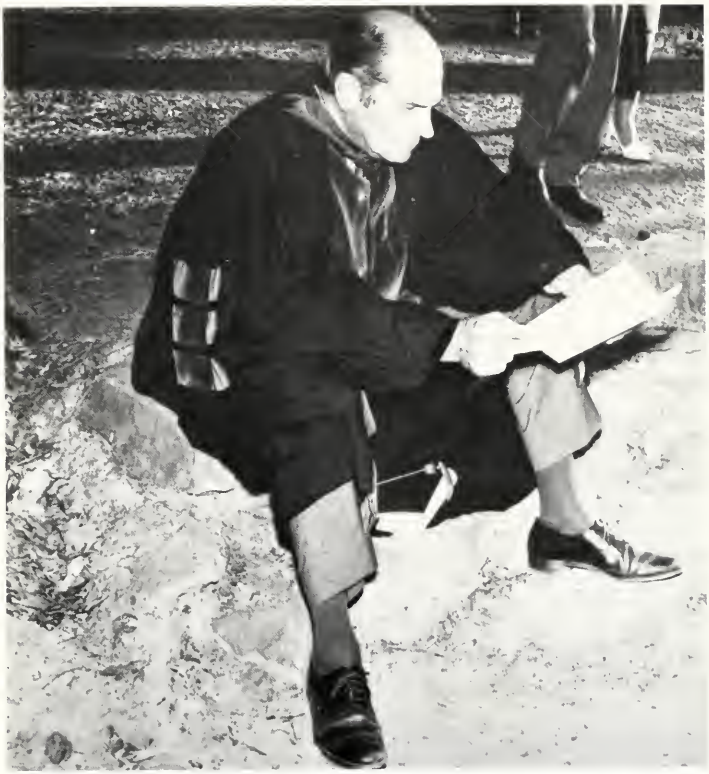
"Ike submitted a blueprint to train more doctors by expanding the size of our medical school classes," Manire said, "and to gain the resources to support such an undertaking. He helped lawmakers to make a commitment to look after the health care of all North Carolina citizens."

Eighteen years ago it was written that "there has been remarkable progress"... "the school is indeed launched in a new era, the potential of which is very great."

"...The past is prologue, we will see what the future brings.

"I think it will be good."

The words were followed by the signature, Isaac M. Taylor.



The classic Ike Taylor photograph: The dean enjoys a brief respite outside of Kenan Stadium during commencement festivities in 1970.

The six UNC Markle Scholars posed for this photograph in 1955. Front row, from left: John B. Graham, M.D., UNC Alumni Distinguished Professor of Pathology; Judson Van Wyk, M.D., UNC Kenan Professor of Pediatrics; and George D. Penick, M.D., Chair, Department of Pathology, University of Iowa. Back row, from left: Isaac M. Taylor, M.D.; Walter T. Hollander, M.D., retired UNC professor of medicine; and T. Franklin Williams, director, Institute of Aging, National Institutes of Health.

Colleagues Salute Ike Taylor's Special Brand of Leadership

Ike Taylor was in the first wave of physicians who joined the faculty of the School of Medicine when it was expanded to a four-year program in 1952.

He was named a Markle Scholar in the Medical Sciences in 1954, but his career in academic medicine was detoured the following year. He was called to active duty in 1955 by the Navy and assigned as Medical Officer for the U.S. Naval Air Facility in McMurdo Sound, Antarctica.

"He was with Admiral Byrd's expedition and said he loved it—best form of birth control man had ever come up with," said Judson Van Wyk, M.D., Kenan Professor of Pediatrics.

"He made the best of it and at least it allowed him to continue studies he'd begun previously to evaluate effects of cold and stress on mammalian cell physiology."

When his tour of duty was up, Taylor resumed teaching and research at UNC. He got his first dose of administrative medicine in 1963 when appointed planning coordinator for the medical school with responsibility to plan and oversee construction of the J. Spencer Love Clinics.

When Dean W. Reece Berryhill elected to retire in 1964, after a 23-year tenure, Taylor was selected as his successor.

"Ike was inexperienced in the business of deaning, but he was extremely bright and intelligent," said Phil Manire.

"He was the right man for the job," said Lucia W. Hudson, administrative assistant in the Dean's Office. "Dr. Taylor was very sensitive to the needs of the faculty, and he loved this university."

"Ike was not a star in the research lab, and he'll tell you that himself," Manire said, "but he had a great understanding of and appreciation for the role of research in a modern medical center. He was an advocate for strengthening the basic sciences in those days, to match the emphasis that had been placed on the clinical sciences."

Two significant statistics of the 1965-71 period that were the Taylor years are:

- Research grants more than doubled, rising from $4.2 million to $10.6 million, and
- Eleven new chairs and more than 100 new full-time faculty members were appointed.

Ike Taylor

"Ike wanted the best academic minds he could find on the faculty, and he recruited nationally," Bill Cromartie said.

"He had an extraordinary vision for talent and could convince people to come here," Manire added.

"An absolute charmer. He completely changed the face of the faculty," John Graham commented. "He made us a big league franchise."

"As a leader, Ike was open and direct. He sought the ideas and opinions of others, and then he was decisive," Glenn Wilson said. "But best of all—he could make you laugh."

External events in the late 1960s had an impact on student life. "This was a difficult time for students," Hudson said. "Dean Taylor related well to them. The students knew him and loved him."

"Vietnam was flaring," Graham said, "and Ike calls a convocation in the clinic auditorium. He let people blow off steam and then he sent a telegram to the White House."

Taylor, who received a Distinguished Service Award in 1976, was cited at that time for paving the way for revisions in the medical school curriculum, creating a stronger sense of partnership between faculty and students.

"He deserves much credit for the school's outstanding record in the area of minority enrollment," Wilson said.

Taylor's interest in primary care was reflected in the establishment of a new Department of Family Medicine, and his concern for the health needs on a statewide basis was reflected in his work to establish teaching units in regional hospitals across the state.

"He planted the seeds for what we know as AHEC (Area Health Education Centers)," Wilson said.

"Ike Taylor made friends with people from all parts of North Carolina and from all walks of life," Cromartie said. "He cast a long shadow across this state."

The right man at the right time.

Alumni Endowment Board Sets an Ambitious Agenda

The Carolina Consultation Center is a good example of what can happen when School of Medicine alumni identify a need and then keep working to see that it's met.

Set up four years ago at North Carolina Memorial Hospital, the Consultation Center has proved to be an extremely valuable resource for thousands of physicians and their patients. It also represents a major improvement in communication between alumni and the medical center in Chapel Hill. And according to many alumni, that is exactly what they need—and want more of.

Since 1984, when an ad hoc task force began assessing the Medical Alumni Association's relationship with the School of Medicine, alumni have consistently expressed the desire for better communication with the medical center, more involvement in its programs and more alumni services.

Those are now among the primary goals of a newly activated alumni organization, the Medical Alumni Endowment Board.

"We want to improve communication among the medical school, University of North Carolina Hospitals and physicians around the state, many of whom are alumni," said Richard Boyd, M.D., the board's chairman. "The Consultation Center has been a great boon to physicians, and it has made the hospital in Chapel Hill a lot more popular with doctors around the state, but we need to continue working to strengthen those ties."

Boyd said that another point of emphasis will be support of an expanded program of continuing education.

The Endowment Board will also encourage and support faculty development, academic enrichment for students and other medical center programs that promote excellence in education, research and service.

"We realize, of course, that if we are going to accomplish the kinds of things we're talking about—and maintain the programs we want to develop—we've got to provide the money," Boyd said.

Nordstrom

This summer, the Endowment Board launched a drive to raise $1 million for the Medical Alumni Endowment Fund. That is just the initial goal; it is hoped the fund will grow and allow the Endowment Board to provide continuing support for alumni services and medical center programs.

The Medical Foundation of North Carolina has created a new position, Assistant Director of Development for Alumni Affairs, to support medical alumni development efforts, including the Endowment Fund. The position is expected to be filled in the fall.

Everett Nordstrom, executive director of the Medical Foundation, said the fund drive, undertaken jointly by alumni and medical school staff, should strengthen the relationship between the Medical Alumni Association and the School of Medicine. "The long-range goal is to provide a way for the alumni to become more significant, influential supporters of the medical school and its programs," Nordstrom said.

Thanks to prior pledges and gifts, the Endowment Fund already contained about $71,000 before the kickoff of the development campaign this summer. According to Boyd, the alumni who will be leading the fund drive are quite optimistic about reaching the $1 million goal.

"We have a large and rapidly growing alumni population, and we just need a well organized effort to tap their generosity and their interest," he said. "We have the potential to accomplish great things for the school."

Easterling

At the same time, the School of Medicine is taking stock of its potential for serving alumni. It is expanding existing programs and developing new ones. According to William E. Easterling Jr., M.D., associate dean for continuing medical education and alumni affairs, the new Alumni Information Center is a new service that is being set up in direct response to alumni calls for better communication.

(Please see **Alumni,** *page 23)*

Reddick Named Brinkhous Professor

By Val Lauder

Creativity is a word that Robert Lee Reddick, M.D., the first Brinkhous Professor of Pathology, often uses.

Recalling his early days when Kenneth M. Brinkhous, M.D., was chairman of the Department of Pathology and the leadership provided by Brinkhous, and then Joe W. Grisham, M.D., the current chair, Reddick says, "Creativity is fostered when you're in a situation where you can be happy, when you have the opportunity to do, and when you have people around you who offer constructive criticism."

Reddick skips lightly over the fact he made the most of his opportunity. But Reddick's achievements—his ability to overcome adversity, to turn setbacks into opportunities—evoke a Horatio Alger image.

Grisham recognized that in nominating him for the Brinkhous Professorship. "Bob Reddick has been a pioneer in each of his several roles at the University of North Carolina—student, resident and faculty member. He has been among the first few blacks in each of these categories. He has personified the outstanding potential for intellectual attainment and scholarship among culturally deprived minority groups in our society, not only blacks but other educationally deprived groups."

From a point 25 years ago when he was dismissed from UNC for academic deficiencies, he has reached an apogee today where he is a leading academic pathologist, receiving serious consideration for departmental chairs in pathology at major institutions.

"It is our opinion," Grisham wrote in his nominating letter, "that Bob Reddick merits the first Brinkhous Professorship primarily because of his sustained and imaginative research in the experimental pathology of blood coagulation, a field in which Kenneth M. Brinkhous has been an international leader, but also because of his qualities as a teacher and diagnostician and his potential advancing these important areas of academic medicine in the future, as Dr. Brinkhous has done in the past."

> **"Creativity is fostered when you're in a situation where you can be happy, when you have the opportunity to do, and when you have people around you who offer constructive criticism."**
>
> Robert Lee Reddick, M.D.

That's a long way from eastern North Carolina.

Sitting in his office in the Brinkhous-Bullitt Building, his appointment as the first Brinkhous Professor of Pathology effective July 1, Reddick's thoughts linger on Brinkhous and the many students in the lab who, like him, went on to medical school or dental school.

"Many of the people who were associated with Dr. Brinkhous now are in positions of research prominence throughout the United States." Of those who did not pursue advanced degrees, he says, "the vast majority remained in some research-type activity."

Reddick, a native of Kinston, NC, first came to the University of North Carolina as an undergraduate in 1960.

"Obviously, a pioneering role for a black high school graduate from eastern North Carolina," notes Grisham. "Within two years he was dismissed for academic deficiencies. Instead of giving up, he began a course that led directly to his career in research."

He sought and landed a job in the pathology lab.

"It was essentially after getting a job in pathology," Reddick says today, "that I just decided to keep on in that area."

At the suggestion that life is often like that, he nods. "An opportunity comes along and you never really know how it's going to turn out."

In Reddick's case it led to his becoming a technician in the research laboratory of George Penick, M.D., professor of pathology, a job in which he also had close contact with other eminent research pathologists, including Brinkhous and John Graham, M.D.

Grisham recalls that "Dr. Penick and his faculty associates perceived Bob Reddick's strong qualities as a human being, as well as

his latent intellectual abilities. He was stimulated and challenged by these scientists. He showed strong determination [in overcoming the academic problems he'd encountered]. . . ultimately petitioning successfully to be readmitted to the University. He received the BA degree in chemistry in 1969 and the MS degree in experimental pathology the following year."

He subsequently was admitted to the UNC School of Medicine, graduating in 1973. He did his internship and residency in the Department of Pathology at UNC, then in 1975-76 was a resident in the Laboratory of Pathology at the National Cancer Institute, in 1976-78 becoming a junior staff member there.

His years at the National Cancer Institute provided what he wanted at the time: in-depth training in a specialty area—cancer. He maintained a close association with colleagues at UNC, however, looking at how blood vessels become diseased.

Returning to UNC as an assistant professor in 1978, Reddick became an associate professor in 1984. Since his return, his professional service has been in diagnostic electron microscopy and as a general surgical pathologist. He is currently the associate director of surgical pathology at the University of North Carolina Hospitals. What drew him to pathology and still holds him there?

"The opportunity to be in a situation where something was very interesting and where you had people who were willing to assist you in making it even more so. With that background and that heightened interest shown by all the people around, it really made it an enjoyable place to work. Plus, pathology is one of those disciplines in which you can really branch out. You can do all kinds of things in pathology. That's one of the things that intrigued me."

Back to creativity: Bob Reddick is both an advocate and a practitioner of creativity in research.

"If you think basically of the way science operates—one, there's a problem. Two, what kinds of things can you think about to solve that problem? Three, what kind of experiments do you perform, then what kind of results can you expect from that, to secure your basic hypothesis?

"In order to do that, you have to be creative in a sense, to think about the possibilities, think about the ramifications of doing the experiment either this way or a different way, in order to arrive at a conclusion that you think is most possible. So in that light, it is creativity."

He is quick to note, however, that there also has to be a certain amount of skepticism. You have to go back and look at the process. And you don't, as he puts it, "go back overenthused."

Photo by Jay Mangum

Robert L. Reddick, M.D. (standing), the first Brinkhous Professor of Pathology, is shown with Kenneth M. Brinkhous, M.D., the medical pioneer for whom his professorship is named.

Still, Reddick brings enthusiasm to pathology.

"Oh, science is wonderful! It's as if one were discovering a new land, so to speak, in the sense that you perform a series of experiments with an intent to solve a problem or to discover something that's new. Essentially, research is that way. It's both exciting and frustrating at times. But, nonetheless, the excitement outweighs the frustrations, and so you continue to do research."

Reddick's major emphasis right now is looking at how blood vessels become diseased.

Faced with the age-old research reality of win some, lose some, Reddick's enthusiasm does not fade.

"Something new comes along," he says. "But isn't that the exciting part? There's always a new world to conquer.

"I guess we in medicine, like outer space explorers, have a sense of adventure as well. There's always something to challenge us, to heighten our interest, to make us want to learn more."

It's not surprising that in his nominating letter Grisham said "naming Dr. Reddick to the Brinkhous Professorship will highlight the important pioneering roles that he has had in the evolution of this department and this University to the front rank of academic institutions, as well as indicate the continuing potential that he has for making even more substantial contributions in the future."

Nor is it surprising that Brinkhous added, "The appointment of Dr. Reddick to this professorship is most appropriate. It seems to me that it is a worthy recognition of the high order of his academic contributions, as he has risen through the faculty ranks, and of the promise for important accomplishments in the years ahead.

"My own deep appreciation goes to the many former students, residents, colleagues and others who have made this new professorship possible. My hope is to be around to see some of the fruits of their generosity."

Now He's on Call Only 84 Hours a Week

By Martha Quillin

Along with tinsel, gifts and the gathering of family, Benjamin D. Burroughs remembers another Christmas tradition from his Hatteras Island childhood.

Every Christmas Day, between 8 and 9 a.m. as Benjamin and his parents and two sisters were about to sit down to breakfast, it would happen just as sure as the tree was green.

The phone would ring.

"Dr. Burroughs?" the caller would say. "I hate to bother you on the holiday but. . . ." And out the door would go Benjamin's father, Franklin Danford Burroughs, M.D., who for 19 years was the only physician on Hatteras Island. Back then he was on call 24 hours a day, 365 days a year.

Including Christmas. Every Christmas, "He'd go across the street to the medical center—just for that one patient—and then somebody would see the car in the parking lot, and so they'd stop in, too. They'd say, 'I wasn't going to trouble you, but since you're here. . . .' " recalls Benjamin Burroughs, now a Morehead Scholar studying music at the University of North Carolina at Chapel Hill. "So it would always be 11 o'clock before we got to have breakfast."

Since Dan Burroughs settled in Hatteras 24 years ago, he has been late for a lot of meals with his family. But by most accounts over the years, his patients have been well served.

As part of his repayment of medical school loans, Burroughs promised the N.C. Medical Care Commission in 1965 that he would practice family medicine in a rural North Carolina setting. He and his wife, Melissa, both Charlotte natives, often had visited the Outer Banks, and they happily picked Hatteras as their new home.

When he arrived with his medical bag, the village had gone five years without a full-time physician to care for its residents—mostly fishermen and their families.

"I guess they probably didn't trust me at first," Burroughs, 55, recalls of the island residents he came to serve. "They kept expecting me to leave."

> He (Dr. Burroughs) took an aptitude test and was told he'd make a good doctor, social worker or minister. In a sense, he has been all three.

But people got used to the idea that the doctor was in and that getting routine medical treatment no longer required a 65-mile drive to Manteo or a 125-mile trip to the closest hospital, in Elizabeth City, for emergency care.

In the early days, patients were seen in the guest house of Burroughs's family home. The waiting room was the screened-in porch. Cuts were cleaned and repaired over a bathroom sink.

These days, patients come to Hatteras Medical Center, an ambitious, county-owned building across the street from Burroughs' home with shiny tile floors, a receptionist's desk and several examining rooms. In his office, a tidy rolltop desk holds notes the doctor writes to himself. Where other physicians might hang their framed medical honors, a map of the Outer Banks clings to the wall beside a brass barometer. On the bookshelves, heady manuals of pediatric therapeutic and neurological medicine are interspersed with marine accessory catalogs.

"I don't treat everybody here, but I guess I treat a fairly decent number of them," Burroughs says. He figures that he sees 5,000 patients a year, including summer tourists, in this village with 600 year-round residents.

"Because of our remoteness, certainly somebody needs to be here all the time," he says. "I'm sure we do some things we wouldn't do if we worked next to a hospital. At one time, we delivered babies. We don't do that anymore, but we do a lot of minor surgery. We see and triage some very serious injuries—automobile traumas, heart attacks with shock, ruptured spleens.

"People find out how remote we are and they say, 'What in the world would you do if somebody got really sick?' The answer is, we do the best we can."

In emergency cases, Burroughs and his small staff serve mostly as a Band-Aid for patients who will be sent by ambulance to a hospital, likely in Elizabeth City or Chesapeake, Va. The doctor's face folds into deep smile lines as he announces proudly that in his 24 years, "We've never had a patient die between here and the hospital."

His good track record with patients may be as much a product of good bedside manner as of good medical training. In fact, Dan Burroughs was well on his way to a career in

electrical engineering before he considered medical school. By his third year of classes at Georgia Tech, he says, "I realized that engineering was applied math, pure and simple, and I was going to be sitting at a desk all day working problems.

"I didn't know then what I wanted to do, but I had a good idea that wasn't it."

So he took an aptitude test and was told he'd make a good doctor, social worker or minister. In a sense, he has been all three.

Robert J. Jacobs, M.D., now a family practitioner 10 miles north in Buxton, splits after-hour duties with Burroughs. That has cut down to 84 the number of hours Burroughs is on call each week.

Jacobs was assigned to Burroughs' clinic in 1984 as part of his obligation to the National Health Service Corps, which helped finance his education. During the three years he worked here, Jacobs says, Burroughs taught him a few things he never could have learned in medical school.

"Probably the thing that most impressed me was his do-no-harm approach," Jacobs says. "His philosophy is: Don't over-doctor the patient. He does what's medically necessary, but he doesn't do all this unnecessary testing just to cover himself against a lawsuit.

"The other thing," Jacobs says, "is that he is concerned about the quality of life. Being on an island two and a half hours from a hospital, he realizes he can't make everybody better, but he can make them as comfortable as possible.

"He's the kind of vanishing breed of old country doctor. He makes a lot of home visits, he spends a lot of time with his patients. He practices medicine because he likes his patients, and he likes sitting down and talking to them about fishing and whatever it is they do. He looks as much toward that as he does toward any medical service.

"He's long and good friends with most of his patients."

Bill Ballance, 36, is one of those who has known Burroughs as both a physician and a friend. As a child, he belonged to a Boy Scout troop Burroughs led. Camping trips the doctor organized to the mountains of North Carolina and Virginia were among Ballance's first experiences away from home.

"We had a good time, but he taught us a lot," says Ballance, who with his father operates a gas station and oil company in Hatteras. "He taught us independence, how to do for ourselves."

Recently, Ballance says, he and his family have struggled through another kind of first experience: the death of a parent. Last month, his wife's mother died of a fast acting cancer.

"She died in Florida but was born on the island, and Burroughs knew her, of course. It was hard on my wife, Christina. If it hadn't been for Dr. Burroughs' coming over to the house and talking to her, explaining to her about the cancer, I don't think my wife would have made it through that, emotionally.

"His support, and helping her understand what was happening, made a big difference."

Burroughs says it's rewarding to be there when he's needed but he readily admits he's made sacrifices to his profession.

"If anything, I may have felt a little too indispensable," he says. "For years, I never took a vacation, never traveled anywhere except to the dentist or to some kind of post-graduate training. Just wanting to be away did not seem like a good enough reason to me, or to the patients, for leaving. My family life has suffered."

Since Jacobs' arrival, Burroughs has been able to make up for some of the time he spent tethered to the island. He and his wife occasionally travel together—their three children are grown—and he has been able to participate more in the N.C. National Guard, which he joined in 1978. Now he is the Guard's state surgeon—its senior medical officer and an adviser to the adjutant general.

Between medical conferences he attends for the Guard, Burroughs finds time to serve on the Hatteras Water Association, a grass-roots group formed to assure that development on the island doesn't overtax its water supplies. In the past, he has raised money for a community center, built a motel and served on the volunteer fire department.

Whatever time is left is generally spent doctoring the Laura B., the latest in a series of fishing boats Burroughs has dismantled and rebuilt. Taking into account the cost of boat repairs, he figures every fish he's ever caught was worth about $100 a pound.

With his many talents, Burroughs recalls younger days when he thought he could do anything.

"Like most young men, I thought I could be president if I wanted to," he says, looking out the clinic window to the blue Atlantic that shines in the distance.

"And like everybody else, I work to pay my bills. Fortunately, I ended up in a kind of work I really enjoy."

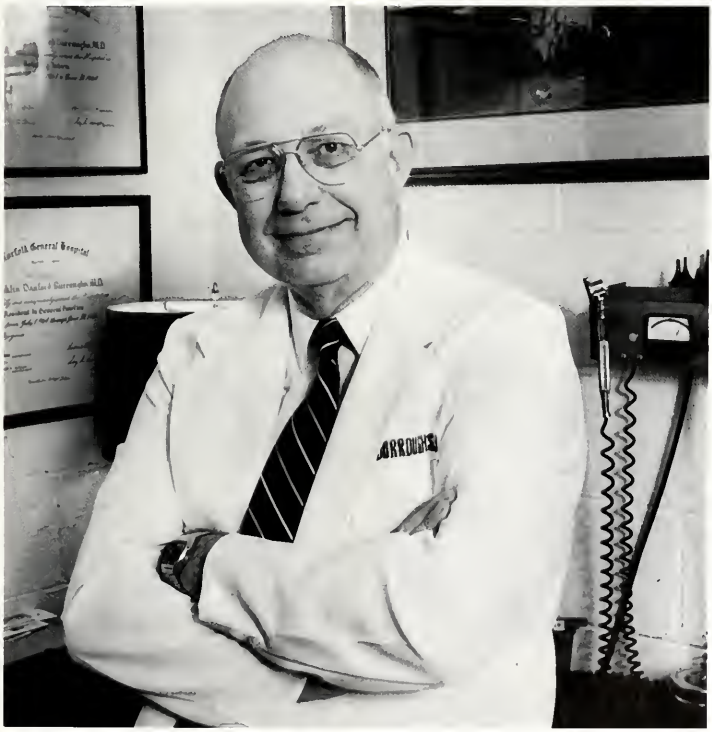


Photo by Rob Cross

Dr. F. Danford Burroughs in his Hatteras Island office.

Editor's note: *Franklin Danford Burroughs, M.D., is a 1963 graduate of the UNC School of Medicine. This article and photograph are reprinted by permission of The News and Observer of Raleigh, N.C.*

Faculty Notes

Boucher Honored as Top Cystic Fibrosis Researcher

Richard C. Boucher, M.D., professor of medicine and director of the School of Medicine's Cystic Fibrosis Research Center, has been named the world's most outstanding cystic fibrosis researcher for 1989.

Boucher

Boucher received the Tulcin Cystic Fibrosis Award, which is presented annually in honor of Doris Tulcin, an organizer of the national Cystic Fibrosis Foundation.

According to Raymond A. Frizzell, director of the Gergory Fleming James CF Research Center at the University of Alabama at Birmingham, Boucher was recognized for his fundamental and continuing contributions to cystic fibrosis research.

"He and his colleagues at the University of North Carolina were the first to define the basic defect in cystic fibrosis airway cells," Frizzell said. "As a pioneer in shaping our early recognition of this basic defect, Dr. Boucher continues to advance our understanding of the molecular basis of this dreaded disease."

P. Frederick Sparling, M.D., J. Herbert Bate Professor of Medicine and Microbiology, has been named chair of the Department of Medicine in the School of Medicine.

The appointment, which was effective June 15, was announced by Dean Stuart Bondurant.

Sparling has chaired the Department of Microbiology and Immunology since 1981 and will continue to hold a joint appointment as professor in that department. He joined the medical school faculty in 1969.

Sparling

"Dr. Sparling is eminently qualified to lead the Department of Medicine," Bondurant said. "His teaching, patient care and research contributions are outstanding. He has earned the respect of his colleagues as a scientist, as a teacher, as a physician and as an academic administrator. We look forward to his energetic and imaginative leadership of the Department of Medicine."

Sparling's research and teaching specialties include infectious diseases, sexually transmitted infections and genetics.

William B. Blythe, M.D., Marion Covington Distinguished Professor of Medicine, has received the University's Thomas Jefferson Award.

The annual award, established in 1961 by the Robert Earll McConnell Foundation, is presented to a member of the UNC faculty or community who best exemplifies the ideals and objectives of Jefferson through personal influence and through teaching, writing and scholarship.

Blythe

A specialist in renal physiology and renal diseases, Blythe was honored for excellence in teaching, research and clinical practice. "Like Jefferson, he has influenced those around him by remaining true to his own humanistic ideals in his personal life," the award citation read.

Don A. Gabriel, M.D., Ph.D., associate professor of medicine, has been appointed associate chief of staff of UNC Hospitals. He is a former acting chief of the Medical Oncology Division.

Gabriel

"Dr. Gabriel brings an outstanding record of achievement and expertise to this position," chief of staff Stanley Mandel, M.D., said in announcing the appointment. "He has the greatest professional and personal respect of his colleagues. In this new capacity, he will make an important contribution to the activities of the medical staff."

Gabriel also will serve as an assistant dean in the School of Medicine.

Colin D. Hall, M.B., Ch.B., professor of neurology and medicine, and **James F. Howard, M.D.,** associate professor of neurology and medicine, have been certified as diplomates of the American Board of Electrodiagnostic Medicine. The board was formed recently to promote, recognize and standardize skills in performing electrodiagnostic medicine related to neuromuscular disease.

Kinuko I. Susuki, M.D., professor of pathology, has been selected to receive a Javits Neuroscience Investigator Award for a seven-year study of the nervous system. The $1.12 million award will support the project called "Experimental Pathology of Developing Nervous System."

The Javits awards, named for the late Sen. Jacob K. Javits of New York, are given to

investigators in the neurosciences who have distinguished records of achievement and who are expected to be highly productive in the future. The awards are administered by the National Institute of Neurological and Communicative Disorders and Stroke.

Alfred R. Hansen, M.D., Ph.D., associate professor of surgery and director of emergency medicine at UNC Hospitals, has been named Outstanding Emergency Department Physician by the Region J Emergency Medical Services Advisory Council.

Hansen

He was recognized for exemplifying "outstanding dedication and support in the exercise of medical control for the EMS system."

The EMS Advisory Council is part of the Triangle J Council of Governments, a cooperative effort of Orange, Durham, Wake, Chatham, Lee and Johnston counties.

Paul Biggers, M.D., Joseph Palmer Riddle Professor of Surgery in Otolaryngology, was presented the Professor Award by the 1989 graduating class of the School of Medicine.

Frank C. Wilson Jr., M.D., professor of surgery and chief of the Division of Orthopaedics, has been elected to the Executive Committee of the American Board of Medical Specialties. The ABMS is a federation representing all medical specialty boards in the United States.

I. Glenn Wilson, professor of social medicine and special assistant to the dean, has received a Distinguished Service Award from the national organization of Area Health Education Centers.

Wilson

The organization cites Wilson for his role as "a founding father of the AHEC model," and as "the sculptor of an important state program and, as importantly, the model which has guided many of us in our efforts to link academe with communities needing service."

Wilson helped establish the AHEC program in North Carolina and served as its director from 1970-77.

Eugene P. Orringer, M.D., professor of medicine, has been appointed director of the Clinical Research Unit at UNC Hospitals. A specialist in hematology, Orringer succeeds Robert D. Utiger, M.D., who has been named editor-in-chief of the New England Journal of Medicine.

Orringer

"Dr. Orringer is a distinguished member of the faculty and is eminently qualified to direct the Clinical Research Unit," said Department of Medicine Chair P. Frederick Sparling, M.D. "His extensive background in teaching, patient care and with research into sickle cell anemia and other blood disorders will contribute immeasurably to the outstanding work of the CRU."

Leonard S. Gettes, M.D., chief of the Division of Cardiology in the Department of Medicine, has been named the Henry A. Foscue Distinguished Professor of Cardiology.

Gettes

Gettes is a leading researcher in the field of sudden cardiac death and in treatment of cardiac arrhythmias. His excellence as an investigator was recognized in 1987 when he received the prestigious MERIT award from the National Institutes of Health.

"Dr. Gettes is a distinguished scholar who has accomplished much in his own research, while contributing substantially as a clinical teacher, research mentor and division chief," said Dean Stuart Bondurant.

Gettes succeeds Ernest Craige, M.D. as Foscue Distinguished Professor. Craige occupied the chair until his retirement in 1987. The professorship was endowed by Henry Foscue of High Point, a UNC alumnus who died in 1985.

Faculty Notes

Mary Ellen Jones, Ph.D., Kenan Professor of Biochemistry, has retired as chair of the Department of Biochemistry and Nutrition. She will continue to teach and conduct research.

Jones

Jones was the first woman at UNC to be named a Kenan professor and, in 1978, became the first to chair a department in the School of Medicine.

A seminar in her honor in June focused on Jones' scientific interests, which include the chemistry of biosynthesis, regulation of metabolic pathways and the detailed mechanism of enzyme action.

David T. Woodley, M.D., associate professor of dermatology, has received an Outstanding Young Physicians Alumni Award from the Medical Alumni Organization of the University of Missouri-Columbia. The award recognizes alumni under the age of 45 who have distinguished themselves in medicine.

Woodley

Peter Curtis, M.B.B.S., professor of family medicine, has received the national Patient Care Award for his course "Telephone Medicine."

The award is presented annually by the Society of Teachers of Family Medicine for development of an original course that teaches clinical behavior, knowledge or skills to family medicine residents in preparation for community practice.

Michael G. Douglas, Ph.D., joins the medical school faculty as professor and chair of the Department of Biochemistry and Nutrition. In this position, he succeeds Mary Ellen Jones.

Douglas

Douglas is a former associate professor of biochemistry at The University of Texas Health Center in Dallas.

Dean Stuart Bondurant, who announced the appointment, said, "Dr. Douglas brings to UNC an extensive background in teaching and research in biochemistry. He has made important contributions to our understanding of the metabolism of mitochondria. The Department of Biochemistry and Nutrition is a key to the scientific strength of the School of Medicine. I am sure that under Dr. Douglas' outstanding leadership the Department will extend its fine record of achievment and contribution."

Douglas earned his undergraduate degree at Southwestern University in Texas. After receiving his doctorate from St. Louis University in Missouri, he completed postdoctoral work at the University of Texas Health Science Center and the Biozentrum in Basel, Switzerland.

Alan W. Cross, M.D., associate professor of pediatrics and social medicine, has been awarded a fellowship from the Fogarty International Center of the National Institutes of Health to conduct research in Kenya. He will investigate how acute respiratory infection threatens the lives of children in a rural community near Nairobi.

Walter E. Stumpf, M.D., Ph.D., professor of anatomy and pharmacology, has been selected by the Humboldt Foundation to receive a Senior U.S. Scientist Award. The award offers the opportunity to conduct research in the Federal Republic of Germany.

George F. Sheldon, M.D., Zack D. Owens Distinguished Professor of Surgery and chair of the Department of Surgery, has been appointed to a five-year term as secretary of the American Surgical Association.

Sheldon

Sheldon also has been named to the Kansas University Medical Alumni Board of Directors.

David Charles Lee, Ph.D., assistant professor of microbiology and immunology, and **Shannon C. Kenney, M.D.**, assistant professor of medicine, have received the 1989 Jefferson-Pilot Fellowship in Academic Medicine. Both are affiliated with the Lineberger Cancer Research Center and each receives a $3,000 annual stipend for the next four years.

Lee

Kenney

Judson J. Van Wyk, M.D., Kenan Professor of Pediatrics and Biology, received the Koch Medal, the highest honor presented by the Endocrine Society, at the group's annual meeting this summer. The Koch Medal is given "for contemporary work of special distinction in endocrinology." The society cited Van Wyk as "one of the most successful trainers of researchers in endocrinology."

Van Wyk

Van Wyk is recognized internationally for research relating to human growth factors.

Kirk C. Aune, Ph.D., has been appointed associate dean of information systems, effective July 1. His appointment was announced by Dean Stuart Bondurant.

Aune joined UNC in 1986 as director of information systems. He also holds a faculty appointment as associate professor of biochemistry.

"An able administrator and a distinguished member of the medical school faculty, Dr. Aune is eminently qualified for this position," Bondurant said. "His extensive knowledge of computers, information management and medical technology will contribute immeasurably to the information systems office."

Aune earned his doctorate from Duke University and completed postgraduate training at Brandeis University. Prior to coming to UNC, Aune served 16 years on the faculty at the Baylor College of Medicine in the Biochemistry Department.

Alumni Endowment

(continued from page 15)

"Anyone who needs to communicate with any part of the medical school can call our number and get information, advice or referral to the appropriate office or department," Easterling said. "It doesn't even have to be a question related to the medical school or hospital. If someone needs to know about programs or research going on anywhere in the University—or something about the Chapel Hill community—we'll field those questions and try to help."

Of course, physicians should continue to call the Consultation Center for professional consults and referrals.

Easterling said his office also is working to offer alumni more—and more useful—continuing education opportunities. "We're making a specific effort to more fully integrate continuing medical education programs into alumni activities. For example, for the fall meeting of the Medical Alumni Association in October, we are putting together a major CME meeting on breast cancer.

"We recognize that, more and more, alumni are eager for continuing education, and we'll be working to meet their needs. We will still have barbecue and football, of course, but, in the future, alumni events will include a stronger CME component, too."

Easterling said he is looking forward to working closely with alumni, including members of the Medical Alumni Endowment Board, to build an even stronger alumni-medical center relationship. Echoing Boyd's sentiments, he said the Medical Alumni Endowment Fund "has great potential to provide for increased services for alumni and to be a continuing source of enrichment for the school."

News Briefs

Legislature Creates UNC Hospitals

The North Carolina General Assembly passed legislation in May establishing the University of North Carolina Hospitals.

The UNC Hospitals entity was created as a unifying organization to project a modern and accurate identity for the hospitals of the University of North Carolina at Chapel Hill, said Eric B. Munson, executive director.

At its July meeting, the hospitals' Board of Directors designated three institutions as official units of the UNC Hospitals system. They are: North Carolina Memorial Hospital, North Carolina Children's Hospital and North Carolina Neuropsychiatric Hospital.

"These classifications preserve the proud tradition of N.C. Memorial as our major adult acute care facility," Munson said. "But we are also properly positioning two major patient care services for growth and expansion—pediatrics and neuropsychiatry."

"We applaud this decision by our lawmakers to effectively give UNC Hospitals a national presence," said Dean Stuart Bondurant. "The hospitals' linkage to UNC is not only appropriate and timely, it is advantageous to our ability to recruit and retain career-oriented health care professionals to Chapel Hill."

The master facilities plan calls for construction of a new neuropsychiatric hospital east of the Biological Sciences Research Center. When that project is complete, Munson said the current South Wing will be demolished to make room for the new N.C. Children's Hospital on that site.

Kenneth A. Jacobson (left), Ph.D., professor, and Brian Herman, Ph.D., associate professor, faculty members with the Department of Cell Biology and Anatomy, organized the first International Conference on Video Microscopy, which brought about 400 researchers to Chapel Hill in June. The UNC scientists are leaders in the design and application of video microscopy technology, which permits the study of various cellular processes involved in both normal and abnormal growth.

New Medical School Award Established

The Christopher C. Fordham Leadership Award has been established in the School of Medicine by an anonymous friend to honor the former dean and chancellor emeritus of the University.

The honor, which includes a $1,000 award, will be presented annually to the medical degree candidate who best exemplifies the qualities of creativity, personal and professional integrity, rigor in scholarship and caring for others.

The first Fordham Leadership Award was presented during commencement ceremonies this spring to Mary F. Casey of Charlotte, whose specialty is obstetrics and gynecology.

Frozen Embryo Twins Are Extra Special

Another first for the UNC medical center: Thomas and Nathan.

They are the first set of twins born in the Carolinas who were conceived from frozen embryo implantation. They were born March 3.

The proud parents, Barbara Gardiner and Roy Highberg of Huntersville, participated in the In Vitro Fertilization Program at North Carolina Memorial Hospital. Gardiner became pregnant after her fertilized embryos were frozen, then thawed and implanted in her uterus in June 1988 by Luther M. Talbert, M.D., professor of obstetrics and gynecology, and director of the IVF program.

During pregnancy, Gardiner's progress was monitored by doctors affiliated with the Area Health Education Center in Charlotte, and she delivered in Charlotte Memorial Hospital.

Speaking at a news conference in Charlotte, Mary Hammond, M.D., professor of obstetrics and gynecology and chief of the Division of Reproductive Endocrinology and Fertility, said, "This is a big moment for our department and the UNC medical center's IVF and frozen embryos program. We hope to continue to set the pace by enabling women and their families who have encountered difficulty becoming pregnant to do just that."

Only about 20 multiple births from frozen embryo transfer have been recorded in the United States to date.

Barbara Gardiner and Roy Highberg proudly show off their twin boys whose birth in March was the result of frozen embryo implantation.

Barbara Hardin, wife of UNC Chancellor Paul Hardin, gave a group of spouses of medical alumni a tour of her home during the spring Alumni Weekend.

News Briefs

Medical Center Adopts No-Smoking Policy

The School of Medicine and UNC Hospitals are both smoke-free.

Smoking was discontinued on hospital property, effective July 1. The medical school's smoke-free policy, announced by Dean Stuart Bondurant in June, took effect September 1.

"We are committed to providing a safe working environment for all of our valued employees and students, and to encouraging healthy lifestyles among all who visit, work or study in our facilities," Bondurant said.

The medical center has offered smoking cessation assistance programs for medical center personnel who want to break the habit.

Introducing This Year's Alumni Officers

Following are the current officers of the Medical Alumni Association:

Grimes Byerly '50, Hickory, president; David Rendleman '70, Raleigh, president-elect; Carwile LeRoy '60, Charleston, SC, vice president; Nelson Watts '69, Atlanta, GA, secretary; and Ellis Fisher '69, Gastonia, treasurer.

Serving as councillors this year are: Michael Alston '78, Murfreesboro, and Samuel 'Bo' Jenkins '55 Elizabeth City, District 1; Jack Welch '63, Greenville, District 2; Tom Newton '81, Clinton, and Jim Sloan '70, Wilmington, District 3; Joe McLamb '67, Goldsboro, District 4; Charles Collins '74, Rockingham, District 5; John Reynolds '71, Salisbury, District 9; Joe Hurt '65, Sylva, and Eldridge Leake '66, Asheville, District 10.

At-large councillors are: Bill Bates '65, Mount Pleasant, SC; Dick Fleming '69, Ponte Vedre Beach, FL; and Howard Kroop '72, Woodbury, NJ.

Medical School Yearbook Is Available to Alumni

The UNC School of Medicine's student yearbook, *The Tarhealer,* is seeking to expand its financial base of support. Founded in 1986, the yearbook is now in its third year.

"We have a successful product and we now want to give alumni the opportunity to contribute to this popular student project," said Cathy Cooper, a fourth year medical student and co-editor. Sponsorships are available for $25, $50 and $100, and each includes a copy of the 1989 publication.

Contributions may be addressed to Cathy Cooper, Co-Editor, 205 Northwood Drive, Chapel Hill, NC 27514.

Members of the Class of '39 were reunited at Spring Alumni Weekend activities. Shown here, from left, are Jesse Caldwell of Gastonia, Tom Thurston of Salisbury and Ed Raspberry of Wilson.

Medical students demonstrated previously hidden talents during the annual Skit Night program. As usual, it was hard to tell whether the audience or the performers were having more fun.

'89 Match Day Results

Eighty-six percent of this year's medical graduates who participated in the National Residency Matching Program were placed among their first three choices for residency positions. Sixty-eight percent were matched with their first choice.

The 17 who have entered programs at North Carolina Memorial Hospital are among 49 remaining in North Carolina for graduate medical education.

A complete list of matching results for the class of 1989 follows:

ALABAMA
Birmingham: University of Alabama Hospital
Robert Street Berry (medicine)
James Daniel Singer (anesthesiology-PGYII)
David Robert Williams Jr. (pediatrics)
Birmingham: Baptist Medical Center
Dean Priest Porter (transitional*)

CALIFORNIA
Los Angeles: Martin L. King/Drew Medical Center
Fletcher Lee Gamble (pediatrics)
Los Angeles: University of California Medical Center
Forrest Sutton Whitaker (pediatrics)
Martinez: VA Medical Center
Roderick O'Hara Thompson (internal medicine)
Orange: University of California-Irvine
Laleh Koochek (radiology-PGYII)
Pasadena: Huntington Memorial Hospital
Laleh Koochek (surgery*)
San Diego: University of California
Yungchieh Ho (medicine*)
San Francisco: University of California
Allen Lothrop Gifford (medicine)
Laurel Kristin Leslie (pediatrics)
Torrance: Harbor-UCLA Medical Center
David Jay Collender (emergency medicine)

COLORADO
Denver: Denver Affiliated Hospitals
Harriet Merle Miller (emergency medicine-PGYII)
Denver: St. Joseph Hospital
Harriet Merle Miller (internal medicine*)
Denver: University of Colorado School of Medicine
Robert Elmer Most (psychiatry)

CONNECTICUT
Farmington: University of Connecticut
Kenneth Michael Scruggs (surgery* and otolaryngology)
New Haven: Yale-New Haven Hospital
Loel Zachary Payne (orthopedic surgery)

DISTRICT OF COLUMBIA
Washington: George Washington University Hospital
Christopher Paul Tardif (surgery* and urology)

FLORIDA
Gainesville: University of Florida Medical Center
William Edward Cogburn (internal medicine)
William Clark Davenport (orthopedic surgery)
Lisa Carolyn Richardson (internal medicine*)
Jacksonville: University of Florida College of Medicine
John Haddon Stephenson (anesthesiology)

GEORGIA
Augusta: Medical College of Georgia
William Monroe Boyd V (ophthalmology-PGYII)
Christopher Bullock (pathology)
Frederick Alexander Frohbose (surgery* and urology)
Jacquelene Marie McIntyre (internal medicine)
Linda Kay Mitchell-Frye (obstetrics-gynecology)
Fort Gordon: Dwight D. Eisenhower Medical Center
Barton Gee Williams (family practice)
James Scott Williford (psychiatry)

IDAHO
Boise: Family Practice Residency of Idaho
Donald Leland Ives (family practice)

ILLINOIS
Chicago: University of Chicago Hospitals
Shannon Stewart Carson (internal medicine)

KENTUCKY
Lexington: University of Kentucky Medical Center
James Martin McLean (physical medicine and rehabilitation)
Gregory Francis Murphy (surgery* and urology)

Louisville: University of Louisville School of Medicine
Julia Lynn Blevins (pediatrics)
Michael Gruenthal (medicine* and neurology)

LOUISIANA
New Orleans: Louisiana State University Affiliated Hospital
Walter Inkyun Choung (orthopedic surgery)

MARYLAND
Baltimore: Sheppard and Enoch Pratt Hospital
Lori Elizabeth Hood (psychiatry)
Baltimore: University of Maryland Medical System
Robert Stephan Jablonover (internal medicine)
Baltimore: The Johns Hopkins Hospital
Gary Bradley Sherrill (internal medicine)

MASSACHUSETTS
Boston: Beth Israel Hospital
Mary Elizabeth Sheehy (internal medicine)
Boston: Brigham & Women's Hospital
Frances Virginia White (pathology)

MISSISSIPPI
Jackson: University Hospital
Roy Clarence Terry (orthopedic surgery)

MISSOURI
Columbia: University of Missouri
Robert Eric Hart (family practice)
St. Louis: Barnes Hospital
Kristin Dutrow Baker (psychiatry)
Scott McKinley Baker (radiology)

NEBRASKA
Omaha: University of Nebraska Affiliated Hospital
Jean Margaret Blom (family practice* and anesthesiology)

NEW JERSEY
Livingston: St. Barnabas Medical Center
Gwen Lynita David (obstetrics-gynecology)

NEW YORK
Bronx: Montefiore Medical Center
Robin Lesette Ellett (family practice)
New York: Cornell Cooperating Hospitals
Sarah Colman Klemmer (surgery* and urology)

A portion of U.S. 15-501 in Chapel Hill was named in honor of former UNC-Chapel Hill Chancellor Christopher C. Fordham III, at a July 21 ceremony. Fordham served as dean of the School of Medicine from 1971 to 1979, vice chancellor for health affairs from 1977 to 1980 and is currently a professor of medicine.

Rochester: Strong Memorial Hospital
Brett Ratilal Gandhi (medicine)
Ruth Petersen (obstetrics-gynecology)
Martha Wood Stevens (pediatrics)
Ann Josie Yadusky (obstetrics-gynecology)
Rochester: Highland Hospital of Rochester
Beat Daniel Steiner (family practice)

NORTH CAROLINA
Asheville: Mountain Area Health Education Center
Virginia Johnston Barnhardt (family practice)
Chapel Hill: North Carolina Memorial Hospital
Lanier Hasty Ayscue (pathology)
Robert Wayne Beale (surgery)
Robert Gregory Elgin (medicine* and ophthalmology)
Carol Elaine Golin (internal medicine)
Theresa Lyn Hamel (pediatrics)
Cherri Deserea Hobgood (family practice)
Duong Xuan Nguyen (internal medicine)
Lisa Carolyn Richardson (ophthalmology-PGYII)
Rebecca Margaret Ryder (obstetrics-gynecology)
Angela P. Sanders-Cliette (pathology)
Yolanda Valjene Scarlett (internal medicine)
Rick Paul Sessions (psychiatry)
Mary Denise Shearin (internal medicine)
Rudolph Joseph Triana Jr. (surgery)
James John Walsh (psychiatry)
Lydia North Wright (obstetrics-gynecology)
Wendell Gray Yarbrough (surgery* and otolaryngology)
Charlotte: Charlotte Memorial Hospital
Mary Frances Casey (obstetrics-gynecology)
Peter Nicholas Copsis (internal medicine)
Brenda Kay Cowell (internal medicine)
Betsy Maurice English (internal medicine)
Douglas Brownell Hansen (pediatrics)
William Randall Harris IV (family practice)
Jeffrey Dale Hoffman (family practice)
Michael Murray Keeley (obstetrics-gynecology)
William Huske Kelly (pediatrics)
Lisa Ann Koehler (emergency medicine)
Charles Gordon Lampley IV (obstetrics-gynecology)
Joel Douglas MacDonald (surgery)
Mary Alice Marshbanks (internal medicine)
Thomas Arthur Payne (pediatrics)
Durham: Duke University Medical Center
Mary Elizabeth Hebert (radiology)
Kathy Sue Robinson (family practice)
Stephen George Somkuti (obstetrics-gynecology)
Greensboro: Moses H. Cone Memorial Hospital
Laura Harman Berglund (internal medicine)

Margaret Ferriter Marsden (internal medicine)
Gary Wayne Roper (internal medicine)
Philip Wayne Royal (internal medicine)
Lorna Ann Westfall (family practice)
Greenville: Pitt County Memorial Hospital
Lisa Kay Alverson (obstetrics-gynecology)
Eliot Anthony Atstupenas (surgery)
Carolann Churchill (family practice)
Kimberly Denise Grigsby (internal medicine)
Thomas Gene Lightfoot (internal medicine*)
Wilmington: New Hanover Memorial Hospital
Arthur Chester Stowe (internal medicine)
Winston-Salem: North Carolina Baptist Hospital
Melissa Mytyle McLeod (anesthesiology)
Mary Louise Parker (family practice)
Arthur James Shepard III (pediatrics)

OHIO
Columbus: Ohio State University Hospital
William Monroe Boyd, V (transitional*)

PENNSYLVANIA
Hershey: Milton S. Hershey Medical Center
Ruth Landsberger Hazard (internal medicine)
Thomas Gene Lightfoot (physical medicine and rehabilitation- PGYII)
Philadelphia: Hospital of the University of Pennsylvania
Yungchieh Ho (anesthesiology-PGYII)
John Phillip Kim (anesthesiology-PGYII)
Philadelphia: Pennsylvania Hospital
Robin Aaron Altman (psychiatry)
Pittsburgh: Allegheny General Hospital
Paul Ethan Austin (emergency medicine)
Pittsburgh: Mercy Hospital of Pittsburgh
John Phillip Kim (medicine*)
Pittsburgh: University Health Center of Pittsburgh
William Frederick McGuirt Jr. (surgery* and otolaryngology)

SOUTH CAROLINA
Charleston: Medical University of South Carolina
Karen Elizabeth Beliles (psychiatry)
Thomas Funcik (surgery* and otolaryngology)
Charleston: Naval Hospital
George Thomas Holland (family practice)
Columbia: Richland Memorial Hospital
Laura Katherine Bliss (family practice)
Spartanburg: Spartanburg Regional Medical Center
Douglas Brett Huntley (surgery)

TENNESSEE
Chattanooga: University of Tennessee College of Medicine
Richard Andrew Peters (internal medicine)
Johnson City: East Tennessee State University
Melva Jeannette Richardson (family practice)
Nashville: Baptist Hospital
Vincent Anthony Bonanno (internal medicine)
Nashville: Vanderbilt University Medical Center
Elizabeth Perkins Sharpless (psychiatry)

TEXAS
Dallas: Baylor University Medical Center
James Daniel Singer (transitional*)
Galveston: University of Texas Medical Branch
Dean Priest Porter (ophthalmology-PGYII)
Houston: Baylor College of Medicine
Elizabeth Jo Conrad (internal medicine*)
Todd Wilson Trask (surgery* and neurological surgery)
Houston: University of Texas Medical School
Donald Scott Covington (surgery)
San Antonio: University of Texas Health Science Center
Elizabeth Jo Conrad (ophthalmology-PGYII)
Lisa Carol Sykes Leland (pediatrics)

VIRGINIA
Charlottesville: University of Virginia
Amy Hurst Evans (pediatrics)
Stephen Ward Hildebrand (obstetrics-gynecology)
Daniel Max Kaplan (internal medicine)
William Lander Lawing (internal medicine)
Christopher Dale McKinney (pathology)
Lynchburg: Virginia Baptist Hospital
Thomas Lee Jeffries (family practice)
Newport News: Riverside Hospital
Donald Dickinson Carver (family practice)
Jeffrey McBrayer Peterson (family practice)
Norfolk: Eastern Virginia Graduate School of Medicine
Rosemary Jackson (family practice)
Johnnie Agustus Lee (internal medicine)
Richmond: Medical College of Virginia
Kermit Alvin Lloyd (neurology-PGYII)
Jay Benjamin Michael (anesthesiology)
Roanoke: Roanoke Memorial Hospitals
Jennifer Leigh Helton (transitional)
Kermit Alvin Lloyd (internal medicine*)
Thomas Paul Walden (internal medicine)

WASHINGTON
Seattle: University of Washington Affiliated Hospitals
Drew Craig Fillipo (pediatrics)
Robert Frederick Noel Jr. (surgery)
Tacoma: Tacoma Family Practice Center
Charles Joseph Forster (family practice)

WISCONSIN
Madison: University of Wisconsin Hospitals and Clinics
Deirdre Ann Burns (pediatrics)
Daniel Thomas Goulson (anesthesiology)

*internship

Twelve Students Earn Holderness Fellowships

Twelve UNC medical students have been awarded Holderness Medical Fellowships for 1989-90. The awards, worth $3,000 each, are given to support research and other scholarly work by the students, including work conducted with a faculty member of their choice.

The fellowships allow students to explore specific issues in their areas of interest. Research topics of this year's fellows range from age-related changes in the brain to hypertension.

Holderness Fellows from North Carolina include: Gilbert R. Upchurch of Durham; Benita F. Banks of Raleigh; Wanda K. Nicholson of Rockingham; and David S. Blythe and Catherine M. Gordon, both of Chapel Hill.

Others are: Robert L. Cook of Gainesville, FL; Paul B. Brechtelsbauer of Wayneboro, VA; Dana V. Darien of Pittsburgh, PA; Sandra L. Miller of Champaign, IL; Gerald E. Cooley of Springfield, MO; John W.C. Entwistle of Knob Noster, MO; and Christopher W. Sturbaum of Rangely, CO.

The Holderness Medical Fellowship Program was established in 1980 by the Howard Holderness family of Greensboro.

"Recipients are selected on the basis of their potential for extraordinary growth and the excellence of the proposals they submit," said John T. Sessions, M.D., professor of medicine and director of the Holderness program. "We believe their work through this program will enable them to provide outstanding leadership in health care."

Class Notes

Manning Berryhill Club

David S. Citron, M.D. '43, has received an honorary Doctor of Humane Letters degree from UNC-Charlotte. He was recently elected to a two-year term as vice chairman of the National Board of Medical Examiners.

James B. Greenwood Jr., M.D. '43, has retired from family medicine practice in Charlotte.

James Hicks Corey Jr, M.D. '45, is the senior physician in a five-member pediatrics group in Chattanooga. He has three sons and a daughter-in-law who are UNC graduates.

Franz W. Rosa, M.D. '46, is maternal and child health epidemiologist for the Center for Drug Research and Development of the Food and Drug Administration. He lives in Rockville, MD.

50s

W. Grimes Byerly, M.D. '50, received the Army's third highest military award, the Legion of Merit First Oak Leaf Cluster, upon his retirement from the Medical Corps of the U.S. Army Reserves. He was cited for 44 years of exceptionally meritorious service. He continues to practice surgery in Hickory and is president of the Medical Alumni Association.

Jack W. Wilkerson, M.D. '51, writes that he is beginning his 34th year of family practice. He is president of Greenville Family Doctors, P.A. and clinical professor of family medicine at East Carolina University.

Laurence E. Earley, M.D. '56, has been awarded a mastership in the American College of Physicians for his expertise and leadership in the field of renal disease. He is chairman of the Department of Medicine at the University of Pennsylvania.

David L. Kelly Jr., M.D. '59, of the Bowman Gray School of Medicine at Wake Forest University is president-elect of the American Association of Neurological Surgeons.

60s

Duncan S. Owen Jr., M.D. '60, has been elected the faculty member of the Alpha Omega Alpha Honor Medical Society. He is a professor of medicine at the Medical College of Virginia in Richmond.

A. Everette James Jr., M.D. '63, hosted a reunion of physicians and nurses of the 93rd Evacuation Hospital, which was the first of its kind in South Vietnam. He writes: "This is thought to be the first reunion of a medical unit from the Vietnam era." James is chairman of the Department of Radiology and Radiological Sciences at Vanderbilt University.

Terry D. Golden, M.D. '68, has been elected to the board of directors of the American Diabetes Association. He practices internal medicine in Atlanta.

John C. Triplett, M.D. '69, resumed regional medical responsibilities in central Africa after receiving his MPH degree at UNC in 1986. He is currently based at the U.S. embassy in Kinshasa, Zaire, but plans a transfer to Nepal next summer to continue his work with the State Department.

70s

Steve Rubin, M.D. '70, is in general internal medicine practice in Chatsworth, CA. He also works for the Hospice for Southern California Permanente Medical Group.

Mark M. Vogelhut, M.D. '74, of Tallahassee, FL, has been elected second vice president of the Florida Society of Anesthesiologists.

William G. Wilson, M.D. '74, was elected to the Society for Inherited Metabolic Diseases. He is associate professor of pediatrics at the University of Virginia, but remains "a loyal Tar Heel fan."

Ernest F. Krug III, M.D. '75, is director of the Center for Developmental Pediatrics of the Greenville (SC) Hospital System.

James E. Peacock Jr., M.D. '75, has received the Basic Science Teaching Excellence Award from students at the Bowman Gray School of Medicine of Wake Forest University. He is an associate professor of medicine and specializes in infectious diseases.

Thomas L. Speros, M.D. '76, has been elected vice president of the North Carolina Academy of Family Physicians. He practices in Washington, NC.

George M. Johnson, M.D. '77, is assistant professor of pediatrics in the Division of Infectious Diseases at the University of Connecticut Health Center.

Julia E. McMurray, M.D. '79, is an internist with the Harvard Community Health Plan in Wellesley, MA. Her husband Mark Linzer is associate professor of medicine at the New England Medical Center. They have two children, Ben and Elizabeth.

80s

Michael O'Shea, M.D. '80, is assistant professor of pediatrics at the Bowman Gray School of Medicine. He has a son, 4, and a daughter, 2.

Peter Tomaz Remec, M.D. '80, has been inducted as a fellow of the American Academy of Orthopaedic Surgeons. He practices in Elmira, NY.

Charles B. Nemeroff, Ph.D. '76, M.D. '81, has been appointed chief of the Division of Biological Psychiatry in the Department of Psychiatry at Duke University. He is a professor of psychiatry and associate professor of pharmacology.

Anne Marie Riether, M.D. '81, is assistant professor of psychiatry at Emory School of Medicine and director of the Addictive Disorders Program at Emory University Hospital. She is also the psychiatrist for the Heart and Liver Transplant Teams. She lives in Atlanta with her husband Bryant Smith, an attorney, and daughter Kalynn, "a promising Tar Heel."

Kevin R. Stone, M.D. '81, received the Albert Trillat Young Investigator's Award at the International Society of the Knee's 6th International Conference in Rome. He has served as a team physician for the U.S. Ski Team, the International Winter Olympics and the Professional Ski Tour. He practices orthopaedic surgery in San Francisco.

Carl Daniel Pate Jr., M.D. '82, has been named to the Beulaville advisory board of United Carolina Bank. He practices family medicine in Beulaville.

Paula Freeman Miller, M.D. '83, this year began a cardiology fellowship at UNC. She lives in Chapel Hill with her husband Stephen and their two children, Jackson and Nate.

Ronald P. Hargrave, M.D. '84, recently became board certified in emergency medicine. He lives in Rock Hill, SC.

Thomas Spangler, M.D. '84, is chief resident in orthopaedics at Duke.

Stephen B. Mitchell, M.D. '85 is starting an obstetrics and gynecology practice in Morehead, KY. He has two daughters, ages 1 and 4.

Patricia A. Michael, Ph.D. '82, M.D. '86, has completed a postdoctoral fellowship in medical information science at the University of California, San Francisco. She is a medical applications analyst in the Hospital Information Services Department at Rex Hospital in Raleigh and an adjunct assistant professor in the Curriculum in Biomedical Engineering and Mathematics at UNC.

Deaths

Carl E. Ervin, M.D. '16
Leslie O. Stone, M.D. '16
Lester T. Chance, M.D. '28
Augustus S. Rose, M.D. '30
William L. Foster, M.D. '43
Morton E. Pizer, M.D. '46
Marvin A. Bowers Jr., M.D. '48
Ward N. Madison Jr., M.D. '62
John W. Hollifield III, M.D. '67
Frank B. Sloop Jr., M.D. '73

Mack Lipkin Dies at Age 82

Mack Lipkin, M.D., clinical professor of medicine and a nationally recognized pioneer in clinical practice and research, died at his home in Chapel Hill after a brief illness. He was 82.

His 45-year career in medicine included private practice in New York from 1934-72. His patients included leaders in business and government, Nobel laureates and nearly 200 fellow physicians. He was an attending physician at several New York hospitals.

Dr. Lipkin helped found the nonprofit Group Health Insurance Co. in 1936 and chaired its executive committee for many years. A pioneer in psychosomatic medicine, he became chief of the psychosomatic service at Mt. Sinai Hospital in 1946. He was a director of the N.Y. Council for the Humanities, the Riverside Research Institute and the New York School of Psychiatry.

After retiring from private practice, he held medical professorships at Cornell and the University of Oregon and visiting professorships at several other schools. He came to UNC as Distinguished Research Scholar in medicine and social and administrative medicine in 1980. He was visiting professor from 1983-85, and became clinical professor in 1985.

Prescription for Better Living: Heavy Dose of Civic Involvement

W. Grimes Byerly Jr., M.D., the new president of the Alumni Medical Association, is a general surgeon in Hickory. A pillar of that community for more than 30 years, he shares a page of his life in this discussion with a contributing editor of the *Bulletin*.

"Those of us who attended the two-year medical school can recall Dean (W. Reece) Berryhill telling us to 'go away, get the best training you can and bring it back to North Carolina.' "

That made perfect sense to this boy from Caldwell County, a third generation of Byerly physicians to set up practice in western North Carolina.

Byerly's undergraduate studies at the University of North Carolina at Chapel Hill were interrupted by World War II, when he went off to serve with the Army in the Philippines. After the war, he returned to Chapel Hill and earned a BA in chemistry in 1948. He finished the two-year medical school program at Carolina in 1950 and received his M.D. at Harvard Medical School.

Byerly completed his surgical internship at Bellevue Hospital and his surgical residency at Roosevelt Hospital, both in New York City.

It was 1957 and time to come home.

"My father (Dr. Wesley Grimes) wanted me to return to Lenoir and join his practice, but an uncle (Dr. Glenn Frye) had a hospital in Hickory," Byerly said.

"My uncle said he'd pay me $500 a month to be his surgeon—promising me all the surgery I could ever want. I jumped at the job.

"So, there I was, primed to bring all the modern surgical techniques I'd learned in New York City to the people of western North Carolina.

> **"I'm a missionary, I suppose, for involvement and conviction, but that's the only way I know to live life and live it to its fullest."**
>
> W. Grimes Byerly Jr., M.D.

"It became almost instantly clear that my livelihood would be the more common surgical procedures the people needed—like tonsils—and not the gall bladders and the colons I had envisioned," he said.

"But, I'm a part of this place, as Thomas Wolfe would put it. I have an obligation to be active and involved in the civic affairs of my community."

Byerly also qualifies as a patriot to his country. During the Vietnam War, he volunteered to go to Vietnam as a civilian doctor for a three-month tour. Later, he requested active duty, and in 1969, Lt. Col. W.G. Byerly Jr. was assigned as commanding officer of the Second Surgical Hospital and Brigade Surgeon for the First Brigade, Fifth Mechanized Division.

"I spent a year as a MASH doctor. Something within me told me I had to be there, to make a contribution in the best way I could," Byerly said. "I closed down my practice for a year, gave the family my love and took up the fight."

Byerly's leisurely pursuits include dabblings in genealogy and history. He's been through three printings of his book, *The Byerlys in North Carolina*. He also is the author of two books about surgical war experiences in Vietnam.

"I'm a missionary, I suppose, for involvement and conviction, but that's the only way I know to live life and live it to its fullest," he said.

A colleague summarized, "Dean Berryhill would be proud—Dr. Byerly is one of North Carolina's favorite sons who didn't get away."

President's Letter

In the journey through life, each of us encounters an assortment of organizations that plead for our attention, membership and participation, and eventually our allegiance. We make choices based on our personal values and interests.

However diverse we may be, there is one thing we all have in common, and it sets us apart from others—our association with the University of North Carolina School of Medicine.

Each of us can reflect on the friendships formed during the medical school years and wonder how goes it now with those old friends, the faculty and administration. Humans are the only creatures on earth who can experience nostalgia and take enjoyment from their past.

And one of the missions of your Medical Alumni Association is to enhance those old friendships. From this standpoint, I am confident that the 1989-90 program year will be a successful one, with plenty of opportunities for us to get together socially.

But let us not forget the association also is committed to improve the practice of medicine in North Carolina and the nation. Therefore, the idea of education after the formal years blends quite readily into the whole field of our association's activities. We see the beginnings of a great, new surge in the area of CME, and your creative input is encouraged.

One of my priorities this year is more communication with the membership. Communication can help overcome some of the problems of geography when dealing with a group so widely dispersed as ours. Indeed, the use of the Medical Alumni Bulletin and the outstanding success of the Carolina Consultation Center, I believe, are two very successful aspects of communication that go far in bonding us together.

As a group, we are very fortunate to have a solid foundation upon which to build. Although there may be a few among us who would say: "The UNC School of Medicine taught me a trade. I paid my tuition, so we're even."

But the vast majority of us would say—and do say: "We got much more than our money's worth." You are the people who can contribute and participate.

As for my own involvement in the association, I have been a plodder, always there but balancing other civic and professional activities.

I fully realize that you cannot run at white-hot heat on everything all the time. We cycle in and we cycle out as our interest peaks and wanes. That's natural and expected. . . but the secret is to never turn away. Keep plodding.

As a member of the Medical Alumni Association, maybe this is the year you truly discover it.

Kay and I look forward to our year working as partners in the presidency of this organization, and we hope to see you in Chapel Hill.

W. Grimes Byerly Jr., M.D.

CME/Alumni Calendar

Medical Alumni Activities		
November 8-12	Alumni Fall Weekend	Chapel Hill
March 23-24	Alumni Spring Weekend	Chapel Hill
Continuing Education		
October 28-29	George Ham Society Meeting	Chapel Hill
December 2	Women's Issues in Psychiatry	Chapel Hill
December 5	Instructor's Course, Pediatric Advanced Life Support	Chapel Hill
December 8-9	Fourth Annual Sports Medicine Symposium	Research Triangle Park
January 26-27	Provider Course, Pediatric Advanced Life Support	Research Triangle Park
February 1-3	Third Geriatric Update	Research Triangle Park
March 14-17	Internal Medicine Conference	Chapel Hill

Nonprofit Organization
U.S. Postage
PAID
Chapel Hill, NC
Permit No. 24

PERIODICALS DEPARTMENT
HEALTH SCIENCES LIBRARY
CB 7585
CHAPEL HILL NC 27599